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TABULÆ SINUUM TANGENTIUM LOGARITHMORUM
Et per univerſam MATHESIN.

Auctiores & Correctiſſimæ

In hac nova Editione

Acceſſère

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PRÆFATIO
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Cum inſignibus encomiis ornari mereantur, quotquot ſcriptis publicis inter Eruditos inclaruerunt, iis palmam honoris deferendam eſſe perſuaſus ſum, qui computatis tabulis mathematicis, ſcientiarum cultoribus operam præſtiterunt. Paradoxum hoc non nullis, primo quidem intuita videri poſſet; rationes tamen in promptu ſunt, quibus ſententiæ meæ calculum adjicere cogantur. Qui ut tanto æquiorem me ſentiant, libris Theologicis, Juridicis atque Medicis, utilitatis prærogativam largiar, non ob-

4-17-40 5

ſtantibus uberrimis emolumentis, quæ Geometria, Aſtronomia & Mechanica cum utraque Architectura, ut reliquas Matheſeos partes ſilentio prætercam, toti generi humano per mathematicas tabellas diſpenſant. Nemo autem inficias ibit hiſce compilandis labore, cura, vigilantia, attentione, imo ſudore atque virium attritû multo magis opus eſſe, quam aliis, cujuscunque generis lucubrationibus. Quid de ingenii acumine dicam? quid de eruditæ lectionis apparatu; quæ ſi aliis ſcriptis vim & vigorem conciliant, tabularum mathematicarum animam conſtituunt & eſſentiam. Et ſi beneficium tanto magis aliis præſtat, quo minus danti prodeſt, quis tabularum conditoribus laudis eminentiam deneget, quæ ſola forte improbo eorum labori conſolando reſtat. Nam reliquos eruditorum labores, objecti amænitas, ſectarios lucrandi ſpes, lectorum copia, bibliopolarum ſolicitatio compenſant. Qui numeris tabularum corradendis

in-

inſudant, unius paginæ ſubductione plus temporis, quam alii integrarum plagularum fabrica deperdunt. Deinde anheli tabernas librarias frequentant ſi forte imprimendis tabulis ſuis impenſas alicunde elicere queant, quo ipſo tamen præter faſtidioſiſſimam correctionis maleſtiam parum acquirunt. Adeo laborem eorum non domeſtica ſolùm objecti inſuavitas aggravat, ſed inſuper externa etiam allevamenta deſtituunt. Sequuntur impreſſionem Empiricorum contemtus, emtorum paucitas, inde bibliopolæ queſtus. Ut adeo pateat Auctores illos vix alia ratione ad edendos difficillimos tabularum partus commoveri, quam quod ſciant orbi erudito iis opus eſſe. Annon igitur æquitas poſtulat, ut in locum præmiorum iis debitorum, præconia & meritorum teſtimonia ſubrogemus?

Ita vero, dum tabularum Auctoribus promeritas laudes vindicavi, fas erit proximo ab illis loco collocare, qui tabulis ejusmodi undecunque ſe-

ligendis, minori commodiorique forma comprehendendis, hinc inde corrigendis augendiſque, atque in unum Corpus aptè compingendis operam impendunt. Falluntur enim qui hos nullius autanguſtæ ſaltem eruditionis indigere credunt. Fruſtra quippe aut in dedecus tuum ejusmodi munia in te ſuſcipias, ſi computi præcepta tantum perfunctorie dediceris. Solam computimoleſtiam ex parte tabularum collectoribus deme, reliqua omnia ejus tribuas opertet, quæ de auctoribus earundem ſuperius dicta ſunt.

Hîc vero præcipuas partes celeb: STRAUCHIO noſtro merito tribuimus, quia primus de forma tam compendioſa, tamque concinno tabularum mathematicarum complexu cogitavit, eundemque A°. Chr: 1662. ſuomet ſumtu typis publicis exſcribi curavit. Cum quidem celeberr: Prof. Grunebergius in Accadem: Viadrina novam harum Tabularum Editionem nuperrime edidit; invenimus tamen in iiſdem tantum vitiorum numerum, mil-

millenarium excedentem, ideoquod, ipſæ Publico non ſolum nullum admodum uſum, ſed damnnm potius afferunt.

Eam præſens Tabb. omnis generis mathematicarum Editio excipit, quâ fieri potuit cura atque circumſpectione ad tantum perfectionis faſtigium deducta, ut, ſi ulla quidem, exigua ſaltem occaſio pluribus additamentis pateat, quorum quidem uſus quodammodo neceſſarius haberi poſſit.

1. Omnes celeb: STRAUCHII tabulas complectitur.

2. Sequentes quatuor admodum neceſſariæ.

Tab: Extract. Radic: □. & Cub:
Tab: Gnomonicam.
Tab: Declinationum Magnetis.
& Tab: Milliarium.

3. Quatuor tabulas Architecturæ Civilis neque in opere meo Goldmanniano reperiundas, neque unquam antea viſas recenti calculo addidi, quarum prior Architecturæ parallelis-

mum, altera ſex ordinum delineationem delicatiſſimam juxta proportiones Nic. Goldmanni, ſequens eorundem deſignationem paulo robuſtiorem eamque noviſſime à me excogitatam, poſtrema ſex ordinibus reſpondentes ſeptuaginta duos ſecundum diverſa variorum Architectorum principia diverſimode conſtruendos exhibet.

4. Cum ſœpe laudati Grunebergii tabulæ fortificatoriæ non niſi vulgarem methodum muniendi belgicam, eamque ob immutatam hodie aſſaltuum rationem propemodum exploſam ſiſtant, earum loco quamplurimas tum ichnographicas tum orthographicas ſubſtitui, quæ non modo binos muniendi modos mihi proprios, hactenus celatos, nec forſan ulli alii ſecundos impertiunt, ſed quod hactenus imprimis deſiderabatur, omnes aliorum modos una eademque methodo in chartam conjicere, menſuras vero orthographicas, pro variis impendii, loci, materiei aliisque circum-

cum-

cumſtantiis variandas, ſecundum rationem ædiſicandi hodierna praxi bellica comprobatam diſponere docent.

5. Varias tabulas geometricas non contemnendæ utilitatis annexui, quarum catalogus infra exponitur.

6. Hæc omnia mirum in modum commendant nitidior charta, typorum elegantia & imprimis ſumma cura graveſque ſumtus correctioni ideo adhibiti, ut hæc editio ab omnibus mendis immunis prodiret.

7. Ne quidquam deeſſet, Riccioli Almageſtum novum, Clavii Opera Mathematica, Milieti Deſchales atque Ozanami curſus Mathematicos, Caſp: Schotti Organon Mathematicum Kircherianum, Zahnii mirabilem mundi Oeconomiam, ejusdemque Oculum artificialem, tandem etiam Pyrobolias Cœhornii, Blondelli atque Braunii, libros ſcilicet variis tabulis inſtructiſſimos perveſtigavi, ſi qua tabulam unam alteramve liceret oſtendere, quam expediret hactenus recenſitis ſuperaddi. Verum mihi

partim minus neceſſariæ, partim extra libros ſuos pauci uſus eſſe videbantur. Quam obrem ne libelli moles & pretium ultra limites conſtitutos absque neceſſitate excreſcerit, ea Auctoribus ſuis intactas relinquere malui.

Exhi-

EXhibeo Tibi in limine INDICEM cum BREVISSIMIS, ad Tabulas qvasdam, NOTIS, ex illius intuitu & ſcopum meum intelliges facilè & qvo loco habendus ſit labor, qvem non exiguum certè in hoc opuſculo exantlavi, ſummatim cognoſces. Notabis vero in antecesſum, ordinem paginarum inferius ſignatum, & non niſi in paucisſimis Tabulis, ob defectum ſpatij, omisſum esſe.

CANON SINUUM & TANGENTIUM, item LOGARITHMORUM SINUUM & TANGENTIUM, *è poſtrema Nepperi Diſpoſitione & editione* BRIGGII, *habetur à - pag.* 1. *usque ad pag.* 181.

NOT. 1. Ita diſpoſitus eſt Canon, ut arcus Complementi dati arcus in alterutro latere reperti, in altero latere ſemper reſpondeat.

2. Ideò Sinus, Tangentes & Logarithmi pro 0. Gradu usqve ad 45. in latere ſiniſtro quæri debent, à 45. *Gr.* autem usqve ad 90. in latere dextro.

LOGARITHMI NUMERORUM VULGARIUM à 0 *usque ad* 10000. *habentur à pag.* 182. *usque ad p.* 256.

1. Numeri majoris, qvam 10000, non excedentis tamen 10000000, Logarithmus invenitur hôc modô: (*α*) qvatuor primarum figurarum numeri dati Logarithmus qværitur in tabula. (*β*) Subtrahitur Logarithmus inventus ex Logarithmo proximè ſeqvente in tabula, ut habeatur eorum differentia (*γ*) Differentia in reliqvas figuras Numeri dati ducitur & à producto abſcinduntur ad dextram tot figuræ, qvot reliqvæ fuerunt. (*δ*) prima Logarithmi, ab initio inventi, figura mutatur in aliam unitate mino-

norem numero figurarum, qvibus numerus integer datus conſtat. (α) Huic Logarithmo primarum figurarum, (mutatô tamen, uti dictum, primô numerô) additur reſiduum producti, è multiplicatione differentiæ &c. orti, ſumma erit Logarithmus qvæſitus.

2. Legarithmo dato in tabulis exacte, non reperiundo, quærenda eſt pars proportionalis: (α) Nimirum excerpendus primò numerus Logarithmo proxime minori in tabula reſpondens, ipſe vero minor Logarithmus tam à dato, tam à proxime ſequenti in tabula ſubtrahendus eſt, ut differentia ejus ab utroque majori habeatur (β) differentia minor multiplicatur per 100, & productum dividitur per differentiam majorem. (γ) Qvotus indicat qvot partes centeſimæ unitatis numero excerpto addenda ſint, ut habentur valor exactus Logarithmi propoſiti.

3. Si in Tabula Logarithmus datus non exactè invenitur, & numerus qvæſitus pluribus qvam qvatuor figuris conſtat, hoc modô è doctrina Autoris harum Tabularum agendum eſt: (α) qvære, neglectâ primâ figurâ, Logarithmum invento reſpondentem pro quatuor primis figuris numeri qvæſiti (β) ſubtrahe Logarithmum inventum è Logarithmo dato, & reſiduo adde tot cyphras, qvot figuras ultra quatuor inventas petis. (γ) Divide reliqvum ſic augmentatum per differentiam Logarithmi inventi & proximè ſeqventis & qvotum pone poſt qvatuor inventas. Tum reſpice primam figuram Logarithmi dati, quæ oſtendet numerum integrum & fractionem numeri qvæſiti. &c.

CANON SEXAGENARUM *habetur à pag.* 257. *usque ad pag.* 271.

NOT.

NOT. 1. In Facie prima extat tabula pro ſpecie emergente è multiplicatione, item è diviſione Numerorum Aſtronomicorum.

2. Ipſius tabulæ ſexagenariæ uſu prolixior explicatu eſt, quam ut inter conſtitutos hujus libelli limites comprehendi qveat, Auctoris doctrina Nnmerorum autem & Joh: Chr: Sturmii Matheſis tum Compendiaria tum Juvenilis, ſatis cuivis obviæ ſunt, unde uſum illum faciliime diſcat.

EPHEMERIS SOLARIS *ad ANN. M. DC. LXI. extat* *pag.* 272. *&* 273.

Sequuntur tabulæ Sphoericæ.

T. DECLINATIONUM PUNCTORUM ECLIPTICÆ *ex Aſtronomia Danica* *p.* 275.

T. ANGULORUM SECTIONIS ECLIPTICÆ & COLURI, *vel circuli Declinationis, præſupponens Declinationem maximam* 23.0.32. *l.* *p.* 275.

T. DECLINATIONUM PRO PLANETIS *itemque* STELLIS, *qvarum Latitudo* 8. *Gr. non excedit è Regiomontano* *p.* 276. *ſeqq.*

Latitudinis gradus qværitur in acie Siniſtra, ſi eadem ſit Septentrionalis, in dextra autem ſi Auſtralis. Longitudo in margine.

T. ASCENSIONUM RECTARUM PUNCTORUM ECLIPTICÆ *p.* 288. *ſeqq.*

T. ASCENSIONUM RECTARUM *ſeu* COELI MEDIATIONUM PRO PLANETIS & STELLIS FIXIS, *qvarum Latitudo non excedit* 8. *Gr. è Regiomont.* *p.* 290. *ſeqq.*

T. DIFFERENTIARUM ASCENSIONALIUM *ad Elevationes poli diſtinctas à* 1. *Gr. usque ad* 60. *Gr. in facie ſuperiori, & Declinationes punctorum cœleſtium à* 1. *Gr. usque ad* 32. *Gr. in later.* *pag.* 322. *ſeqq.*

T. ASCEN-

T. Ascensionum Obliqvarum Eclipticæ *à 1. Gr. Latitudinis usque ad 60. Gr.* p. 330. *ſeqq.*

Ad Latitudinem Wittebergenſem 51. Gr. 52. l. tabula extat p. 432. *ſeqq.*

T. Angulorum Orientis *ſeu Horizontis & Eclipticæ ad Elevat. poli diſtinctas à 47. Gr. usque ad 57. Gr.* pag. 452. *ſeqq.*

Ad Elevationem Witteberg. 51. Gr. 52. l. tabula extat p. 457.

T. Amplitudinum Ortivarum & Occiduarum *ad Elev. poli diſtinctas à 47. Gr. usque ad 53. Gr. in facie ſuper. & Declinat. à 1. Gr. usque ad 43. Gr. in latere.* p. 464 465.

T. Numerorum Polarium Integra p. 466.

T. Qvantitatis Dierum *ad Elevationem Wittebergenſem 51. Gr. 52. l. & loca finitima* p. 467.

II. T. Partium Æqvatoris & Temporis, *cujus ope gradus & minuta Æqvitoris facillimè in tempus mutantur* p. 467.

Uſus tabulæ ita ſe habet: Partes Æqvatoris qværuntur in latere ſiniſtro, earundemqve denominatio ſuperius vel inferius. Pro gradibus reſpondent Horæ & minuta prima; Pro minutis primis, prima & ſecunda; pro ſecundis, ſecunda & tertia. E. g. ſi qværatur, qvantò temporis ſpatio oriantur 156. *o.* 12. *l.* 36. *ll.* Æqvatoris; numeri excerpuntur hoc modo: 100. Gr. dant 6. H. 40. *I.* 0. *II.* 0. *III.*

50. Gr. 3. 20.
6. Gr. 0. 24.
10. Min. pr. 0. 0. 40.
2. Min pr. 0. 0. 8.

30. Se-

30. Secunda	0.	0.	2.	
6. Secunda	0.	0.	0.	24.

Tempus reſpondens arcui Æquat.
10. 24. 50. 24.

III. T. Temporis & Partium Æquatoris, *cujus ope dato tempori reſpondens in Æquatore arcus cognoſcitur* p. 467.

Uſus eôdem ferè modô ſe habet, uti Tabulæ præcedentis, e. g. ſi quæratur arcus Æquatoris reſpondens 10. Horis 24. /. 50. //. 24. ///. 10. Horis reſpondent 2. Sexag. 30. 0. vel

	0.	/.	//.
	150.	0.	0.
24. Min. prim.	6.	0.	0.
50. Min. ſecund.		12.	30.
24. Min. tert.			6.

Arcus Æquat. reſpondens tempori.
156. 12. 36.

Tabulæ Theoricæ *incipiunt* p. 468.

T. Æquationis Dierum Naturalium p. 468.

Not: Literas S. & A. quarum illa in ſuperiori, hæc in inferiori marginis ſ. lateris ſpatio conſpicitur, indicare particulam Æquationis eſſe pro Signis ſuperius repertis ſubtrahendam, inferius Addendam.

T. Different. Meridianor. In Tempore, Longitudinis *item & Latitudin.* Nobiliorum Europæ & Vicinorum Locorum, *quas Reinhartus p. m. ut correctiſſimas laudavit*, p. 470. ſeqq.

 T. Mi-

T. Mediorum Motuum Solis Ad Epoch. Per. Jul. Mundi, Christi & Annos Julianos Singulos p. 474.

Cum propter bis ſexti diſpoſitionem annis Per. Jul. Singulis idem non reſpondeat, quod annis reliquarum Epocharum (Primus enim Epochæ Per. Jul. annus bisſextilis eſt, in reliquis autem Epochis communis) ideo pro annis, à Periodo Juliana denominatis, uſurpetur prior Tabulæ pars ſeu ſectio, in qua Longitudo & Anomalia Solis, Epochæ Per. Julianæ reſpondentes, annotantur. Pro annis autem reliquarum Epocharum uſurpetur pars ſeu Sectio Tabulæ poſterior, in qua Longit. & Anomal. Solis Epochæ mundi & Chriſti reſpondentes annotantur. Ut ſexto anno, ab Epocha Per. Jul. deducto, reſpondent Longit. Solis o. Sign. o. Gr. 32. /. 18. //. & Anomal. Solis o. Sign. o. Gr. 26. /. 7. //. At ſi ſextus annus dicatur, reſpectu Epoch. Mundi vel Chriſti, reſpondent Longitudo Solis 11. Sign. 29, Gr. 33. /. 10. //. Anomal. 11. Sign. 29. Gr. 26. /. 59. //. Atque hoc monitum in ſubſequentibus Tabulis Theoricis repetendum eſt.

I. T. Mediorum Motuum Solarium Ad Annos Collectos, Extensa *ad VIII. MILL. ANN.* p. 475.

II. T. Mediorum Motuum Solis In Mensibus Anni p. 475.

T. Mediorum Motuum Solis In Diebus, Horis & Minutis p. 476.

In ea parte tabulæ, quâ Horis & minutis reſpondentes motus annotantur, repetenda ea ſunt, quæ circa Tabulam extantem p. 467. dicta ſunt.

T. Pros-

T. Prostaphæresium Solarium Integra *pro Signo Superius reperto Subtrahendarum, inferius Addendarum* p. 477.

Non TE turbet primo gradui quinti ſigni, vel viceſimo nono gradui ſexti ſigni reſpondere 61./.26.//. pro 1. 0. 1./. 26.//. factum enim id eſt ob defectum ſpatij, quod novum numerorum ordinem vix cepisſet.

T. Fixarum Tychonica ad Annum Christi M. DC. p. 478. ſeqq.

I. T. Mediorum Motuum Pro Fixis Ad Epoch. Per. Jul. Mundi, Christi, Annos Julianos Singulos, Collectos & Menses. p. 485.

II. T. Scrupulorum Proportionalium Pro Fixis p. 485.

T. Prostaphæresium Pro Fixis *Subtrahendarum, ſi ſignum ſuperius aſſumptum fuerit, ſi inferius Addendarum* p. 486.

T. Excessuum Pro Fixis *ſemper Addend.* p. 487.

T. Mediorum Motuum Lunarium Ad Epoch. Per. Jul. Mundi, Christi *item* Annos Julianos Singulos *&* Collectos p. 488. 489.

T. Mediorum Motuum Lunarium
In Mensibus p. 490.
In Diebus p. 491.
In Horis *&* Minutis. pag. 492. 493.

T. Prosthaphæresium lunarium subtrahendarum pro signis superioribus addendarum pro signis inferioribus p. 494.

T. Elongationis lunæ a centro p. 495.

T. Eccentricitatis lunæ p. 496.

 I. T. Va-

I. T. Variationis centri epicycli ☽ *pro Signis ſex primis* o. I. II. III. IV. V. *Addendæ*, *pro reliquis ſex Signis Subtrab.* *p.* 497.
II. T. Reductionis lunæ ad eclipticam *pro Signo Superiori Subtrab. pro infer. Add.* *p.* 497.
Tab. Parallaxium solis et lunæ *p.* 498.

Not. (1.) Parallaxin Solis præſupponere diſtantiam Solis à terra mediam 1288. Semidiametrorum Terræ (quas Literæ S. T. indicant) Lunæ autem parallaxin ad diſtantiam variam in iisdem Semidiametris annotatam eſſe. Denique altitudinis gradus pro utroque Luminari in Lateribus exhiberi.

2. Pro Semidiametris terræ, in calculo Pa rallaxeos Lunaris, ſi ita placeret, uſurpari poſſe partes Semidiametri Concentrici. Reſpondent n. Semidiametris terræ 52. partes Conc. 92857.

53.	94643.
54.	96429.
55.	98215.
56.	100000.
57.	101786.
58.	103572.
59.	105358.
60.	107143.

T. Semidiametrorum solis, lunæ & umbræ *in* eclipsibus *ad Anom. Luminarium in Lateribus* *p.* 499.

Litera V. ſub Titulo Umbr. notat variationem Semidiametri umbræ.

T. Refractionum solis, lunæ et stel-

la-

LARUM *in Circulo verticali ad Loca Europæ Borealiora* p. 501.
T. MOTUS LUNÆ HORARII IN CONJUNCTIONE ET OPPOSITIONE ET DUODECIM HOR. ULTRA, SEU DIMIDII DIEI ANTE ET POST. p. 504.
T. MUTATIONIS SMIDIAM. LUNÆ IN ECLIPS. OB AEREM CRASSIOREM *ad diverſas poli Elevationes* pag. 504.
T. PROSTAPHÆRESIUM NODORUM *pro Signo Super. Addend. inf. Subtrabend.* p. 506.
T. LATITUDINUM LUNARIUM p. 507.
T. MEDIORUM MOTUUM SATURNI *ad Epoch. Per. Jul. Mundi, Chriſti & ANNOS JULIANOS SINGULOS* p. 505.

Not. (1.) Tabulam hanc, præpoſterò ordine, à Typographo tabulæ Proſtaphæreticæ Nodorum & Latitudinum Lunarium antepoſitam eſſe.

(2.) Idem hic repetendum, quod de Tabulis Motuum Solarium anteà dictum eſt.

T. MEDIORUM MOTUUM SATURNI IN ANNIS COLLECTIS *item* IN MENSIBUS p. 508.
T. MEDIORUM MOTUUM SATURNI IN DIEBUS, *item* IN HORIS & MINUTIS p. 509.
T. PROSTAPHÆRESEOS ECCENTRICI SATURNI *pro Signo Super. Subtr. infer. Add.* p. 510.
T. PROSTAPHÆRES. ORBIS ANNUI SATURNI *Sign. Super. Addend. inferior. Subtrabend.* p. 511.
T. SCRUPULORUM PROPORTIONALIUM SATURNI p. 512.
T. EXCESSUUM SATURNI p. 513.
T. MEDIORUM MOTUUM JOVIALIUM *ad*

Epoch. Per. Jul. Mundi & Chriſti, nec non ANNOS JULIANOS, SINGULOS, COLLECTOS, MENSES, DIES, HORAS & MINUTA *p.* 514. *ſeqq.*
T. Prostaphæres. Eccentrici Jovis, *pro Sign. Super. Subtrab. inf. Addend.* *p.* 517.
T. Prostaphæres. Orbis Annui Jovis & Scrupulorum Proportionalium *p.* 518. 519.
T. Excessuum Pro Jove *p.* 520.
T. Mediorum Motuum Martis *ad Epoch. Per. Jul. Mundi, Chriſti & ANNOS JULIANOS SINGULOS, COLLECTOS, MENSES, HORAS & MINUTA* *pag.* 521, *ſeqq.*
T. Prostaphæres. Martialium *p.* 524.
T. Distantiarum Martialium à Centro *p.* 525.
T. Distantiarum Solis & Martis *p.* 526.
T. Mediorum Motuum Nodorum Pro Tribus Superioribus Boreorum *ad Epoch. Per. Jul. Mundi, Chriſti, annos Julianos Singulos & Collectos* *p.* 527.

Notabis Tabulam pro menſibus nullum locum commodum inveniſſe, & exiguas reſpondere particulas; Ne tamen aliquid deeſſe videatur, en eam!

	♄	♃	♂		♄	♃	♂
	//	//	//		//	//	//
JANUAR.	3	1	4	*JULIUS*	24	8	31
FEBRUAR.	7	2	9	*AUGUST.*	28	9	35
MARTIUS	10	3	13	*SEPTEMB.*	31	10	40
APRILIS	14	4	18	*OCTOBER*	35	11	44
MAJUS	17	5	22	*NOVEMB.*	38	12	49
JUNIUS	21	7	26	*DECEMB.*	42	14	52

T. Scru-

T. Scrupulorum Proportionalium & Latitudinum *pro* Saturno, Jove *&* Marte. *p.* 528. *ſeqq.*
T. Anomaliarum Veneris & Mercurii *ad Epoch. Per. Jul: & ANNOS SINGULOS* *p.* 534.
T. Anomaliarum Veneris *&* Mercurii *ad Epoch. Mundi, Chriſti & ANNOS SINGULOS* *p.* 535.
T. Anomaliarum Veneris *&* Mercurii *ad* Annos Collectos, Menses, Dies, Horas *&* Scrupula *p.* 536. *ſeqq.*
T. Prostaphæres. Eccentr. Vener. *Signi Super. Subtr. infer. Addend.* *p.* 540.
T. Excessuum *pro* Venere. *p.* 541.
T. Prosthaphæres. Orbis annui ♀ *Signi Super. Addend. infer.* S. & Scrupulorum proportionalium *p.* 542. *ſeqq.*
T. Scrupulorum Proportionalium *pro* Venere & Mercurio & Declinationum Veneris *p.* 544.
T. Scrupulorum Proportionalium *pro* ♀ & ☿ & Reflexionum Veneris *p.* 545.
T. Prosthaphær. Eccentricit. Mercurii *p.* 546.
T. Excessuum Mercurii. *p.* 547.
T. Prosthaphæres. Orbis Annui Mercur. & Scrupul. Proportionalium *p.* 548. 549.
T. Declinationum Mercurii *p.* 550.
T. Reflexionum Mercurii *p.* 551, 552.
T. Extract. Rad: □ et Cub: *p.* 553.
T. Angulorum Horariorum Gnomonica. *p.* 554.
T. Declinationum Magnetis *p.* 555.
T. Milliariorum *p.* 556.

Ordinem Tabularum & quo quævis loco inveniatur, indicavi hactenus. Cæterùm cum in Solutione Triangulorum REGULÆ quædam obſervandæ ſint, easdem, ne in calculo aliquis impediatur, ex editione Tabularum Trigonometr. A. Vlacq. potiſſimùm, præmittere hoc loco placet.

OBSERVATIONES GENERALES.

1. Triangulorum rectangulorum, tam rectilineorum, quam Sphæricorum, latera, angulum rectum comprehendentia, appellantur CRURA, & latus eidem oppoſitum HYPOTENUSA.

2. Cujusvis Trianguli, tam rectilinei, quam Sphærici, angulus major majori crure ſuſtinetur & majus crus majore angulo.

3. In quolibet triangulo, ſive rectilineum, ſive Sphæricum, ſive rectangulum, ſive obliquangulum illud ſit, latera ſe habent ad invicem, ut Sinus angulorum oppoſitorum.

4. In Logarithmicis operationibus loco Sinus, vel Tangentis, ſubſtituatur Logarithmus ejus.

4. Propoſitionum hic ordo eſt, ut primæ ſint ad inveniendos angulos, poſteriores ad latera.

CAPUT I.

De Reſolutione Triangulorum RECTILINEORUM RECTANGULOR.

OBSERVATIONES.

1. Cujusvis Trianguli rectilinei tres anguli ſunt duobus rectis æquales.

2. Ideò in Triangulo rectilineo non niſi unus angulus rectus eſſe poteſt, itemque non niſi unus obtuſus, & in quo Triangulo rectus angelus

lus eſt, in eo obtuſus eſſe nequit, & vice verſa:
3. Summâ duorum angulorum trianguli re-ctilinei ſubtractâ è ſemicirculo ſeu 180. Gradibus, innoteſcit angulus tertius. Vel in triangulo rectangulo, ſubtracto tantum uno acutorum è 90. Gradibus.

I. PROP. *Datis Cruribus invenire ANGULOS acutos.*

Ut Crus utrumlibet
Ad Crus alterum,
Sic Sinus Totus
Ad Tang. ang. cruri alteri opp.

II. PROP. *Datâ Hypotenuſâ & crure utrolibet, invenire ANGULOS acutos.*

Ut Hypotenuſa
Ad Sinum Totum;
Sic Crus Datum
Ad Sin. ang. cruri dato oppoſ.;

III. PROP. *Datis angulis & crure utrolibet, invenire alterum CRUS.*

Ut Sinus Totus
Ad crus datum;
Sic Tang. anguli acuti cruri dati adjacentis
Ad crus quæſitum.

IV. PROP. *Datis angulis & Hypotenuſâ, invenire CRUS utrumlibet.*

Ut Sinus Totus
Ad Hypotenuſam;
Sic Sinus anguli cruri quæſito oppoſiti
Ad crus quæſitum.

V. PROP. *Datis Hypotenuſâ & crure utrolibet, invenire CRUS alterum.*

Quære primùm angulos acutos per 2. propoſ. deinde crus quæſitum per 3. aut 4. Propoſ. *Vel per Logarithmos:*

Adde Logarithmum ſummæ Hypotenuſæ & cruris dati Logarithmo differentiæ eorundem; Dimidium Summæ Logarithmorum eſt Logarithmus cruris quæſiti.

VI. PROP. *Datis angulis & crure utrolibet, invenire* HYPOTENUSAM.

Ut Sinus anguli Cruri dato oppoſiti,
Ad crus datum;
Sic Sinus totus
Ad Hypotenuſam.

VII. PROP. *Datis Cruribus invenire* HYPOTENUSAM.

Quære primùm angulos per I. prop. Deinde Hypotenuſam per præcedentem.

CAPUT II

De Reſolutione Triangulorum RECTILINEORUM OBLIQUANGULORUM.

I. PROP. *Datis duobus lateribus & angulo alterutri eorum oppoſito, invenire* ANGULUM *oppoſitum*:

Si notum eſt, an erit acutus, vel obtuſus.

Ut latus angulo dato oppoſitum.
Ad Sinum ejusdem anguli:
Sic latus alterum
Ad Sin. ang. lat. huic oppoſ.

II. PROP. *Datis duobus lateribus & angulo interjacente, invenire reliquos* ANGULOS.

Ut ſumma datorum laterum
Ad diff. eorund.
Sic Tang. Semiſummæ angulorum quæſitorum
Ad Tang. differentiæ eorundem.

Si igitur ſemiſſi angulorum quæſitorum (qui ſunt complementum anguli dati ad 180. Gr.) differentia quæſita addatur, aggregatum erit major angulus, ſi vero ſubtrahatur, reſiduum erit minor angulus.

III.

III. PROP. *Datis tribus lateribus invenire quemlibet ANGULUM.*

Latus maximum ſumatur pro Baſi & ſuper eam ducatur perpendicularis, reducendo datum Triangulum in duos Triangulos rectangulos, eritque:

Ut Baſis
Ad aggregatum reliquorum later.
Sic differentia eorundem
Ad differentiam Segmenti Baſis.

Si differentia inventa à Baſi auferatur, perpendicularis dividit reliquum in duas partes æquales: In duobus igitur Triangulis rectangulis cognoſcitur Hypotenuſa & unum Crus, per quæ inveniuntur anguli per Prop. 2. cap. I.

NOTA. Poteſt etiam inveniri Logarithmus Numeri quarti, ſi complementum Arithmeticum primi Logarithmi (qui eſt reliquum ejusdem ſubductus ex 10. 0000000.) addatur duobus reliquis, & aggregato auferatur prima figura ad ſiniſtram. Si Logarithmus aliquis ſubduci nequit ex 10.0000000. veluti Logarithmus Tangentium arcuum 46 Grad. excedentium, ſubtrahendus ille eſt ex 1000000000. & faciendum ut ſupra.

Aliter.

Addantur invicem latera data, & ex Semi ſumma eorundem auferatur quodlibet latus angulo quæſito interjacens, ut habeatur differentia eorundem: Eritque.

α Ut Latus quodlib. ang. quæſito interjacens
Ad quamlibet differentiam inventam;
Sic altera differentia
Ad numerum quartum.
β Ut Latus quodlibet ang. quæſito interjac.
Ad Sinum totum;
Sic quartus numerus inventus
Ad Septimum.

Sep-

Septimò hoc numerò ductò in Sinum Totum, radix quadrata producti erit ſinus ſemiſſis anguli quæſiti.

Vel facilius per LOGARITHMOS; Adde Logarithmum ſinus totius Logarithmo ſeptimi numeri, ſemiſumma erit Logarithmus ſinus ſemiſſis anguli quæſiti.

IV. PROP. Datis angulis & unô Latere; invenire alterutrum quodlibet LATUS

Ut Sinus anguli dato lateri oppoſiti
Ad Latus datum;
Sic Sinus anguli Lateri quæſito oppoſiti
Ad Latus quæſitum.

V. PROP. Datis duobus Lateribus eum angulô interjacente invenire tertium LATUS.

Quære primùm angulos per 2. Propoſ. hujus capitis, deinde quæſitum per præcedentem 4. Propoſ.

CAPUT III.

De Solutione TRIANGULORUM SPHÆRICORUM RECTANGULORUM.

OBSERVATIONES.

1. Si Crus unum eſt quadrans, angulus eidem oppoſitus, erit rectus: ſi quadrante minus, acutus: ſi majus, obtuſus: & contrà.

2. Si Crus unum eſt quadrans, Hypotenuſa etiam erit quadrans: Si ambo ſunt quadrante minora vel majora, Hypotenuſa erit quadrante minor: Si verò Crus unum eſt quadrante majus, & alterum minus, Hypotenuſa erit quadrante major; & contrà.

3. Si angulus unus Hypotenuſæ adjacens eſt rectus, Hypotenuſa erit Quadrans: Si ambo iſti ſunt recto minores vel majores, Hypotenuſa erit Quadrante minor. Si verò alteruter eſt recto major, alter minor, Hypotenuſa erit Quadrante major; & contra.

4. Cu-

4. Cujuſcunque Trianguli Sphærici tres anguli ſunt duobus rectis majores.

I. PROP. *Datis angulo obliquo & crure iſti adjacente invenire alterum* ANGULUM *obliquum.*

Vt Sinus Totus

Ad Sinum dati ang. obliqui.

Sic Sinus complementi cruris dati,

Ad Sinum complementi anguli quæſiti.

II. PROP. *Datis crure uno & angulo obliquo eidem oppoſito; invenire alterum* ANGULUM *obliquum.*

Si cognoſcitur ſitne acutus vel obtuſus, vel ſi Hypotenuſa, vel alterum Crus, eſt quadrante minus vel majus.

Ut Sinus complementi cruris dati,

Ad Sinum complementi anguli dati;

Sic Sinus Totus

Ad Sinum anguli quæſiti.

III. PROP. *Datis Hypotenuſa & crure; invenire* ANGULUM *iſti cruri oppoſitum.*

Ut Sinus Hypotenuſæ

Ad Sinum Totum;

Sic Sinus cruris dati,

Ad Sinum anguli quæſiti.

IV. PROP. *Datis cruribus, invenire quemlibet* ANGULUM *obliquum.*

Ut Sinus cruris angulo quæſito adjacentis,

Ad Sinum Totum;

Sic Tangens alterius cruris,

Ad Tangentem anguli quæſiti.

V. PROP. *Datis Hypotenuſa, & uno Crure; invenire* ANGULUM *interjacentem.*

Ut ſinus totus,

Ad Tangent. complem. Hypot.

Sic Tangens cruris dati

Ad

Ad Sinum complementi anguli quæſiti.

VI. PROP. *Datis Hypotenuſa, & angulo obliquo, invenire alterum obliquum* ANGULUM.

U*t Sinus totus,*

Ad Sinum complementi Hypotenuſæ;

Sic Tangens anguli obliqui dati,

Ad Tangentem complementi anguli quæſiti.

VII. PROP. *Datis Hypotenuſa, & angulo obliquo; invenire* CRUS *iſti angulo oppoſitum.*

U*t Sinus Totus,*

Ad Sinum Hypotenuſæ;

Sic Sinus anguli obliqui dati,

Ad Sinum Cruris quæſiti.

VIII. PROP. *Datis Hypotenuſa & uno Crure; invenire alterum* CRUS.

U*t Sinus complementi Cruris dati,*

Ad Sinum Totum;

Sic Sinus complementi Hypotenuſæ,

Ad Sinum complementi Cruris quæſiti.

IX. PROP. *Datis angulis; invenire quodlibet* CRUS.

U*t Sinus compl. anguli Cruri quæſiti adjac.*

Ad Sinum Totum;

Sic Sinus complementi alterius anguli obliqui

Ad Sinum complementi Cruris quæſiti.

X. PROP. *Datis uno crure & angulo obliquo eidem adjacente, invenire alterum* CRUS.

U*t Sinus Totus,*

Ad Sinum cruris dati;

Sic Tangens anguli obliqui dati,

Ad Tangentem cruris quæſiti.

XI. PROP. *Datis uno crure & angulo obliquo eidem oppoſito; invenire alterum* CRUS.

Modo ſciatur ſitne hoc, vel Hypotenuſa quadrante minor vel major: vel ſitne alter angulus obliquus acutus vel obtuſus.

Ut

Ut Sinus Totus,

Ad Tangentem compl. ang. obliqui dati;

Sic Tangens cruris dati,

Ad Sinum cruris quæſiti.

XII. PROP. *Datis Hypotenuſa & angulo obliquo; invenire* CRUS *iſti angulo adjacens.*

Ut Sinus Totus,

Ad Sinum complem. anguli obliqui dati;

Sic Tangens Hypotenuſæ,

Ad Tangentem cruris quæſiti.

XIII. PROP. *Datis angulis, invenire* HYPOTENUSAM.

Ut Sinus Totus,

Ad Tangentem compl. cujuslibet ang. obliqui;

Sic Tangens complementi alterius ang. obliq.

Ad Sinum complementi Hypotenuſæ.

XIV. PROP. *Datis Cruribus, invenire* HYPOTENUSAM.

Ut Sinus totus,

Ad Sinum complementi cujuslibet cruris;

Sic Sinus complementi alterius cruris,

Ad Sinum complementi Hypotenuſæ.

XV. PROP. *Datis uno Crure & angulo obliquo cruri iſti oppoſito, invenire* HYPOTENUSAM.

Modo ſciatur ſitne hæc, vel alterum Crus, quadrante minus vel majus: vel ſitne alter angulus obliquus acutus vel obtuſus.

Ut Sinus anguli obliqui dati,

Ad Sinum Totum;

Sic Sinus Cruris dati,

Ad Sinum Hypotenuſæ.

XVI. PROP. *Datis uno crure & angulo obliquo cruri iſti adjacente, invenire* HYPOTENUSAM.

Ut Sinus Totus,

Ad

Ad Sinum complementi anguli obliqui dati;
Sic Tangens complementi Cruris dati,
Ad Tangentem complementi Hypotenuſæ.

CAP. IV.

De Solutione TRIANGULORUM *SPHÆRICORUM OBLIQUANGULORUM.*

OBSERVATIONES.

1. Si detur angulus cum latere oppoſito, alterius anguli dati latus oppoſitum per theorema commune invenitur.

2. Similiter ſi detur latus cum angulo oppoſito, alterius lateris dati angulus oppoſitus per theorema commune invenitur.

3. In aliis caſibus pro vulgari etiam ac methodo Logarithmica, triangulum obliquangulum, demiſſo perpendiculo, in duo triangula rectangula reſolvatur.

4. Perpendiculum angulo jam cognito opponitur, angulus rectus autem lateri jam cognito, & ſi perpendiculum cadat extra triangulum latera continuari debent.

5. Ut ſciamus, unde perpendiculum ducendum ſit, obſervandæ ſunt hæ regulæ (α) Si ê datis duobus lateribus & angulo ab iis comprehenſo; quilibet angulus inveniendus ſit, perpendicularis neceſſario ducenda eſt à latere angulo quæſito oppoſito. (β) Si ê datis duobus angulis & latere interjacente, quodlibet latus inveniendum ſit, perpendicularis neceſſario ducenda eſt ex angulo dato lateri quæſito adjacente.

6. In hac methodo tribus operationibus, ſecundum præcedentes propoſitiones inſtituendis, opus eſt. Quamvis enim in editione Tabularum Vlacq monſtretur modus per duas operationes tantum, nobis tamen communis ille magis arridet, cum novis præceptis, retentô eô, aſſueſcere opus non ſit.

FINIS.

CANON SINUUM ET TANGEN.

NEC NON LOGARITHMORUM.

Min.	Grad. 0			
	Sinus	Tang.	*Log. Sin.*	*Log.Tang.*
0	0	0	0	0
1	29.09	29.09	6.4637261	6.4637261
2	58.18	58.18	6.7647561	6.7647562
3	87.27	87.27	6.9408473	6.9408475
4	116.36	116.36	7.0657860	7.0657863
5	145.44	145.44	7.1626960	7.1626964
6	174.53	174.53	7.2418771	7.2418778
7	203.62	203.62	7.3088239	7.3088248
8	232.71	232.71	7.3668157	7.3668169
9	261.80	261.80	7.4179681	7.4179696
10	290.89	290.89	7.4637255	7.4637273
11	319.98	319.98	7.5051181	7.5051203
12	349.06	349.07	7.5429065	7.5429091
13	378.15	378.16	7.5776684	7.5776715
14	407.24	407.25	7.6098430	7.6098566
15	436.33	436.33	7.6398160	7.6398201
16	465.42	465.42	7.6678445	7.6678492
17	494.51	494.51	7.6941733	7.6941786
18	523.60	523.60	7.7189966	7.7190026
19	552.68	552.69	7.7424775	7.7424841
20	581.77	581.78	7.7647537	7.76476[illegible]
21	610.86	610.87	7.7859427	7.7859508
22	639.95	639.96	7.8061458	7.806154
23	669.04	669.05	7.8254507	7.825460
24	698.13	698.14	7.8439338	7.843944
25	727.21	727.23	7.8616623	7.861673
26	756.30	756.32	7.8786953	7.878707
27	785.39	785.41	7.8950854	7.895098
28	814.48	814.50	7.9108793	7.910893
29	843.57	843.60	7.9261190	7.926134
30	872.65	872.69	7.9408419	7.940858

Min.	89 Grad.			
	Sinus	Tang.	*Log.Sin.*	*Log.Tang.*
60	10000000	Infinit.	10.0000000	Infinit.
59	99999.99	343774667.	9.9999999	13.5362739
58	99999.98	171887319.	9.9999999	13.2352438
57	99999.96	114591530.	9.9999998	13.0591525
56	99999.93	185943630.	9.9999997	12.9342137
55	99999.89	168754887.	9.9999995	12.8373036
54	99999.84	157295721.	9.9999993	12.7581222
53	99999.79	149110600.	9.9999991	12.6911752
52	99999.73	142971757.	9.9999988	12.6331831
51	99999.66	138197099.	9.9999985	12.5820304
50	99999.58	134377371.	9.9999982	12.5362727
49	99999.49	131252137.	9.9999978	12.4948797
48	99999.39	128647773.	9.9999974	12.4570909
47	99999.28	126444080.	9.9999969	12.4223285
46	99999.17	124555198.	9.9999964	12.3901434
45	99999.05	122918166.	9.9999959	12.3601799
44	99998.92	121485762.	9.9999953	12.3321508
43	99998.78	120221875.	9.9999947	12.3058214
42	99998.63	119098419.	9.9999940	12.2809974
41	99998.47	118093220.	9.9999934	12.2575159
40	99998.30	117188540.	9.9999927	12.2352390
39	99998.13	116370019.	9.9999919	12.2140492
38	99997.95	115625908.	9.9999911	12.1938453
37	99997.76	114946502.	9.9999903	12.1745396
36	99997.56	114323712.	9.9999894	12.1560556
35	99997.35	113750745.	9.9999885	12.1383262
34	99997.13	113221851.	9.9999876	12.1212923
33	99996.91	112732134.	9.9999866	12.1049012
32	99996.68	112277396.	9.9999856	12.0891062
31	99996.44	111854018.	9.9999845	12.0738656
30	99996.19	111458865.	9.9999835	12.0591416

Min.	o Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	872.65	872.69	7.9408419	7.9408584
31	901.74	901.78	7.9550819	7.9550996
32	930.83	930.87	7.9688698	7.9688886
33	959.92	959.96	7.9822334	7.9822534
34	989.00	989.05	7.9951980	7.9952192
35	1018.09	1018.14	8.0077867	8.0078092
36	1047.18	1047.24	8.0200207	8.0200445
37	1076.27	1076.33	8.0319195	8.0319446
38	1105.35	1105.42	8.0435009	8.0435274
39	1134.44	1134.51	8.0547814	8.0548094
40	1163.53	1163.61	8.0657763	8.0658057
41	1192.61	1192.70	8.0764997	8.0765306
42	1221.70	1221.79	8.0869646	8.0869970
43	1250.79	1250.88	8.0971832	8.0972172
44	1279.87	1279.98	8.1071669	8.1072025
45	1308.96	1309.07	8.1169262	8.1169634
46	1338.05	1338.17	8.1264710	8.1265099
47	1367.13	1367.26	8.1358104	8.1358510
48	1396.22	1396.35	8.1449532	8.1449956
49	1425.30	1425.45	8.1539075	8.1539516
50	1454.39	1454.54	8.1626808	8.1627267
51	1483.48	1483.64	8.1712804	8.1713282
52	1512.56	1512.73	8.1797129	8.1797626
53	1541.65	1541.83	8.1879848	8.1880364
54	1570.73	1570.93	8.1961020	8.1961556
55	1599.82	1600.02	8.2040703	8.2041259
56	1628.90	1629.12	8.2118949	8.2119526
57	1657.99	1658.21	8.2195811	8.2196408
58	1687.07	1687.31	8.2271335	8.2271953
59	1716.16	1716.41	8.2345568	8.2346208
60	1745.24	1745.51	8.2418553	8.2419215

89 Grad.

Min.	Sinus.	Tang.	Log. Sin.	Log. Tang.
30	99996.19	11458865.0	9.9999835	12.0591416
29	99995.93	11089205.1	9.9999823	12.0449004
28	99995.66	10742648.4	9.9999812	12.0311114
27	99995.39	10417094.5	9.9999800	12.0177466
26	99995.11	10110690.2	9.9999788	12.0047808
25	99994.82	19821794.3	9.9999775	11.9921908
24	99994.52	19548947.5	9.9999762	11.9799555
23	99994.21	19290848.7	9.9999748	11.9680554
22	99993.89	19046333.6	9.9999735	11.9564726
21	99993.56	18814357.2	9.9999721	11.9451906
20	99993.23	18593979.1	9.9999706	11.9341943
19	99992.89	18384350.7	9.9999691	11.9234694
18	99992.54	18184704.1	9.9999676	11.9130030
17	99992.18	17994343.0	9.9999660	11.9027828
16	99991.81	17812634.2	9.9999644	11.8927975
15	99991.43	17639000.9	9.9999628	11.8830366
14	99991.04	17472916.5	9.9999611	11.8734901
13	99990.65	17313899.1	9.9999594	11.8641490
12	99990.25	17161507.0	9.9999577	11.8550044
11	99989.84	17015334.6	9.9999559	11.8460484
10	99989.42	16875008.7	9.9999541	11.8372733
9	99988.99	16740185.4	9.9999522	11.8286718
8	99988.55	16610547.3	9.9999503	11.8202374
7	99988.11	16485800.8	9.9999484	11.8119636
6	99987.66	16365674.1	9.9999464	11.8038444
5	99987.20	16249915.4	9.9999444	11.7958741
4	99986.73	16138290.5	9.9999424	11.7880474
3	99986.25	16030582.0	9.9999403	11.7803592
2	99985.76	15926587.2	9.9999382	11.7728047
1	99985.27	15826117.4	9.9999360	11.7653792
0	99984.77	15728996.2	9.9999338	11.7580785

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
	1 Grad.			
0	1745.24	1745.51	8.2418553	8.2419215
1	1774.32	1774.60	8.2490332	8.2491015
2	1803.41	1803.70	8.2560943	8.2561649
3	1832.49	1832.80	8.2630424	8.2631153
4	1861.58	1861.90	8.2698810	8.2699563
5	1890.66	1891.00	8.2766136	8.2766912
6	1919.74	1920.10	8.2832434	8.2833234
7	1948.83	1949.20	8.2897734	8.2898559
8	1977.91	1978.30	8.2962067	8.2962917
9	2006.99	2007.40	8.3025460	8.3026335
10	2036.08	2036.50	8.3087941	8.3088842
11	2065.16	2065.60	8.3149536	8.3150462
12	2094.24	2094.70	8.3210269	8.3211221
13	2123.32	2123.80	8.3270163	8.3271143
14	2152.41	2152.91	8.3329243	8.3330249
15	2181.49	2182.01	8.3387529	8.3388563
16	2210.57	2211.11	8.3445043	8.3446105
17	2239.65	2240.21	8.3501805	8.3502895
18	2268.73	2269.32	8.3557835	8.3558953
19	2297.81	2298.42	8.3613150	8.3614297
20	2326.90	2327.53	8.3667769	8.3668945
21	2355.98	2356.63	8.3721710	8.3722915
22	2385.06	2385.74	8.3774988	8.3776223
23	2414.14	2414.84	8.3827620	8.3828886
24	2443.22	2443.95	8.3879622	8.3880918
25	2472.30	2473.05	8.3931008	8.3932336
26	2501.38	2502.16	8.3981793	8.398315
27	2530.46	2531.27	8.4031990	8.4033381
28	2559.54	2560.38	8.4081614	8.4083037
29	2588.62	2589.48	8.4130676	8.413213
30	2617.69	2618.59	8.4179190	8.418067

Min.	88 Grad.			
	Sinus	Tang.	*Log. Sin*	*Log. Tang.*
60	99984.77	5728996.16	9.9999338	11.7580785
59	99984.26	5635058.96	9.9999316	11.7508985
58	99983.74	5544151.67	9.9999294	11.7438351
57	99983.21	5456130.03	9.9999271	11.7368847
56	99982.67	5370858.75	9.9999247	11.7300437
55	99982.12	5288210.91	9.9999224	11.7233088
54	99981.57	5208067.26	9.9999200	11.7166766
53	99981.01	5130315.66	9.9999175	11.7101441
52	99980.44	5054850.59	9.9999150	11.7037083
51	99979.86	4981572.64	9.9999125	11.6973665
50	99979.27	4910388.06	9.9999100	11.6911158
49	99978.67	4841208.41	9.9999074	11.6849538
48	99978.06	4773950.14	9.9999047	11.6788779
47	99977.45	4708534.30	9.9999021	11.6728857
46	99976.83	4644886.20	9.9998994	11.6669751
45	99976.20	4582935.12	9.9998966	11.6611437
44	99975.56	4522614.07	9.9998939	11.6553895
43	99974.91	4463859.56	9.9998911	11.6497105
42	99974.25	4406611.32	9.9998882	11.6441047
41	99973.59	4350812.16	9.9998853	11.6385703
40	99972.92	4296407.73	9.9998824	11.6331055
39	99972.24	4243346.39	9.9998794	11.6277085
38	99971.55	4191578.99	9.9998764	11.6223777
37	99970.85	4141058.76	9.9998734	11.6171114
36	99970.14	4091741.16	9.9998703	11.6119082
35	99969.43	4043583.75	9.9998672	11.6067664
34	99968.71	3996546.05	9.9998641	11.6016848
33	99967.98	3950589.46	9.9998609	11.5966619
32	99967.24	3905677.11	9.9998577	11.5916963
31	99966.49	4861773.81	9.9998544	11.5867868
30	99965.73	3818845.93	9.9998512	11.5819321

Min.	1. Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	2617.69	2618.59	8.4179190	8.4180679
31	2646.77	2647.70	8.4227168	8.4228690
32	2675.85	2676.81	8.4274621	8.4276176
33	2704.93	2705.92	8.4321561	8.4323150
34	2734.01	2735.03	8.4367999	8.4369622
35	2763.09	2764.14	8.4413944	8.4415603
36	2792.16	2793.25	8.4459409	8.4461103
37	2821.24	2822.36	8.4504402	8.4506131
38	2850.32	2851.48	8.4548934	8.4550699
39	2879.40	2880.59	8.4593013	8.4594814
40	2908.47	2909.70	8.4636649	8.4638486
41	2937.55	2938.82	8.4679850	8.4681725
42	2966.62	2967.93	8.4722626	8.4724538
43	2995.70	2997.05	8.4764984	8.4766933
44	3024.78	3026.16	8.4806932	8.4808920
45	3053.85	3055.28	8.4848479	8.4850505
46	3082.93	3084.39	8.4889632	8.4891696
47	3112.00	3113.51	8.4930398	8.4932502
48	3141.08	3142.63	8.4970784	8.4972928
49	3170.15	3171.74	8.5010798	8.5012982
50	3199.22	3200.86	8.5050447	8.5052671
51	3228.30	3229.98	8.5089736	8.5092001
52	3257.37	3259.10	8.5128673	8.5130978
53	3286.44	3288.22	8.5167264	8.5169610
54	3315.52	3317.34	8.5205514	8.5207902
55	3344.59	3346.46	8.5243430	8.5245860
56	3373.66	3375.58	8.5281017	8.5283490
57	3402.73	3404.71	8.5318281	8.5320797
58	3431.81	3433.83	8.5355228	8.5357787
59	3460.88	3462.95	8.5391863	8.5394466
60	3489.95	3492.08	8.5428192	8.5430838

Min.	88 Grad.			
	Sinus	Tang.	*Log.Sin.*	*Log. Tang.*
30	99965.73	3818845.93	9.9998512	11.5819321
29	99964.96	3776861.30	9.9998478	11.5771310
28	99964.19	3735789.17	9.9998445	11.5723824
27	99963.41	3695600.11	9.9998411	11.5676850
26	99962.62	3656265.92	9.9998376	11.5630378
25	99961.82	3617759.62	9.9998342	11.5584397
24	99961.01	3580055.33	9.9998306	11.5538897
23	99960.19	3543128.25	9.9998271	11.5493869
22	99959.36	3506954.58	9.9998235	11.5449301
21	99958.53	3471511.50	9.9998199	11.5405186
20	99957.69	3436777.09	9.9998162	11.5361514
19	99956.84	3402730.29	9.9998125	11.5318275
18	99955.98	3369350.89	9.9998088	11.5275462
17	99955.11	3336619.45	9.9998050	11.5233067
16	99954.24	3304517.27	9.9998012	11.5191080
15	99953.36	3273026,37	9.9997974	11.5149495
14	99952.47	3242129.46	9.9997935	11.5108304
13	99951.57	3211809.88	9.9997896	11.5067498
12	99950.66	3182051.60	9.9997856	11.5027072
11	99949.74	3152839.16	9.9997817	11.4987018
10	99948.81	3124157.67	9.9997776	11.4947329
9	99947.88	3095992.80	9.9997736	11.4907999
8	99946.94	3068330.70	9.9997695	11.4869022
7	99945.99	3041158.02	9.9997653	11.4830387
6	99945.03	3014461.89	9.9997612	11.4792098
5	99944.06	2988229.86	9.9997570	11.4754140
4	99943.08	2962449.95	9.9997527	11.4716510
3	99942.09	2937110.55	9.9997484	11.4679203
2	99941.09	2912200.47	9.9997441	11.4642213
1	99940.09	2887708.88	9.9997398	11.4605534
0	99939.08	2863625.33	9.9997354	11.4569162

Min.	2 Grad.			
	Sinus	Tang.	Log.Sin.	Log.Tang.
0	3489.95	3492.08	8.5428192	8.5430838
1	3519.02	3521.20	8.5464218	8.5466909
2	3548.09	3550.33	8.5499948	8.5502683
3	3577.16	3579.45	8.5535386	8.5538166
4	3606.23	3608.58	8.5570536	8.5573362
5	3635.30	3637.71	8.5605404	8.5608276
6	3664.37	3666.83	8.5639994	8.5642912
7	3693.44	3695.96	8.5674310	8.5677275
8	3722.51	3725.09	8.5708357	8.5711368
9	3751.58	3754.22	8.5742139	8.5745197
10	3780.65	3783.35	8.5775660	8.5778766
11	3809.71	3812.48	8.5808923	8.5812077
12	3838.78	3841.61	8.5841933	8.5845136
13	3867.85	3870.74	8.5874694	8.5877945
14	3896.91	3899.88	8.5907209	8.5910509
15	3925.98	3929.01	8.5939483	8.5942832
16	3955.05	3958.14	8.5971517	8.5974917
17	3984.11	3987.28	8.6003317	8.6006767
18	4013.18	4016.41	8.6034886	8.6038386
19	4042.24	4045.55	8.6066226	8.6069777
20	4071.31	4074.69	8.6097341	8.6100943
21	4100.37	4103.83	8.6128235	8.6131889
22	4129.44	4132.96	8.6158910	8.6162616
23	4158.50	4162.10	8.6189369	8.6193127
24	4187.57	4191.24	8.6219616	8.6223427
25	4216.63	4220.38	8.6249653	8.6253518
26	4245.69	4249.52	8.6279484	8.6283402
27	4274.75	4278.66	8.6309111	8.6313083
28	4303.82	4307.81	8.6338537	8.6342563
29	4332.88	4336.95	8.6367764	8.6371845
30	4361.94	4366.09	8.6396796	8.640093

Min.	87 Grad.			
	Sinus	Tang.	Log. Sin.	Log. Tang.
60	99939.08	2863625.33	9.9997354	11.4569162
59	99938.06	2839939.69	9.9997309	11.4533091
58	99937.03	2816642.18	9.9997265	11.4497317
57	99935.99	2793723.33	9.9997220	11.4461834
56	99934.95	2771173.99	9.9997174	11.4426638
55	99933.90	2748985.28	9.9997128	11.4391724
54	99932.84	2727148.61	9.9997082	11.4357088
53	99931.77	2705655.68	9.9997036	11.4322725
52	99930.69	2684498.43	9.9996989	11.4288632
51	99929.60	2663669.04	9.9996942	11.4254803
50	99928.51	2643159.96	9.9996894	11.4221234
49	99927.40	2622963.84	9.9996846	11.4187923
48	99926.29	2603073.58	9.9996798	11.4154864
47	99925.17	2583482.27	9.9996749	11.4122055
46	99924.04	2564183.23	9.9996700	11.4089491
45	99922.90	2545169.96	9.9996650	11.4057168
44	99921.75	2526436.15	9.9996601	11.4025083
43	99920.60	2507975.68	9.9996550	11.3993233
42	99919.44	2489782.62	9.9996500	11.3961614
41	99918.27	2471851.19	9.9996449	11.3930223
40	99917.09	2454175.78	9.9996398	11.3899057
39	99915.90	2436750.95	9.9996346	11.3868111
38	99914.70	2419571.40	9.9996294	11.3837384
37	99913.49	2402631.99	9.9996242	11.3806873
36	99912.28	2385927.72	9.9996189	11.3776573
35	99911.06	2369453.72	9.9996136	11.3746482
34	99909.83	2353205.25	9.9996082	11.3716598
33	99908.59	2337177.72	9.9996028	11.3686917
32	99907.34	2321366.65	9.9995974	11.3657437
31	99906.08	2305767.67	9.9995919	11.3628155
30	99904.82	2290376.55	9.9995865	11.3599069

2 Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	4361.94	4366.09	8.6396796	8.6400931
31	4391.00	4395.24	8.6425634	8.6429825
32	4420.06	4424.38	8.6454282	8.6458528
33	4449.12	4453.53	8.6482742	8.6487044
34	4478.18	4482.68	8.6511016	8.6515375
35	4507.24	4511.82	8.6539107	8.6543522
36	4536.30	4540.97	8.6567017	8.6571490
37	4565.36	4570.12	8.6594748	8.6599279
38	4594.42	4599.27	8.6622303	8.6626891
39	4623.47	4628.42	8.6649684	8.6654331
40	4652.53	4657.57	8.6676893	8.6681598
41	4681.59	4686.73	8.6703932	8.6708697
42	4710.64	4715.88	8.6730804	8.6735628
43	4739.70	4745.03	8.6757510	8.6762393
44	4768.76	4774.19	8.6784052	8.6788996
45	4797.81	4803.34	8.6810433	8.6815437
46	4826.87	4832.50	8.6836654	8.6841719
47	4855.92	4861.66	8.6862718	8.6867844
48	4884.98	4890.82	8.6888625	8.6893813
49	4914.03	4919.97	8.6914379	8.6919629
50	4943.08	4949.13	8.6939980	8.6945292
51	4972.14	4978.29	8.6965431	8.6970806
52	5001.19	5007.46	8.6990734	8.6996173
53	5030.24	5036.62	8.7015889	8.7021390
54	5059.29	5065.78	8.7040899	8.7046465
55	5088.35	5094.95	8.7065766	8.7071395
56	5117.40	5124.11	8.7090490	8.7096185
57	5146.45	5153.28	8.7115075	8.712083[illegible]
58	5175.50	5182.44	8.7139520	8.7145345
59	5204.55	5211.61	8.7163829	8.716971[illegible]
60	5233.60	5240.78	8.7188002	8.719395[illegible]

87 Grad.

Min.	Sinus	Tang.	*Log.Sin.*	*Log.Tang.*
30	99904.82	2290376.55	9.9995865	11.3599069
29	99903.55	2275189.10	9.9995809	11.3570175
28	99902.27	2260201.48	9.9995753	11.3541472
27	99900.98	2245409.59	9.9995697	11.3512956
26	99899.68	2230809.67	9.9995641	11.3484625
25	99898.37	2216398.02	9.9995584	11.3456478
24	99897.05	2202171.00	9.9995527	11.3428510
23	99895.73	2188125.10	9.9995469	11.3400721
22	99894.40	2174256.87	9.9995411	11.3373109
21	99893.06	2160562.96	9.9995353	11.3345669
20	99891.71	2147040.10	9.9995297	11.3318402
19	99890.35	2133685.11	9.9995236	11.3291303
18	99888.98	2120494.88	9.9995176	11.3264372
17	99887.61	2107466.37	9.9995116	11.3237607
16	99886.23	2094596.63	9.9995056	11.3211004
15	99884.84	2081882.76	9.9994996	11.3184563
14	99883.44	2069321.96	9.9994935	11.3158281
13	99882.03	2056911.47	9.9994874	11.3132156
12	99880.61	2044648.61	9.9994812	11.3106187
11	99879.18	2032530.75	9.9994750	11.3080371
10	99877.75	2020555.35	9.9994688	11.3054708
9	99876.31	2008719.89	9.9994625	11.3029194
8	99874.86	1997021.95	9.9994562	11.3003828
7	99873.40	1985459.12	9.9994498	11.2978610
6	99871.93	1974029.10	9.9994435	11.2953535
5	99870.45	1962729.59	9.9994370	11.2928605
4	99868.97	1951558.37	9.9994306	11.2903815
3	99867.48	1940513.27	9.9994241	11.2879166
2	99865.98	1929592.17	9.9994176	11.2854655
1	99864.47	1918792.98	9.9994110	11.2830281
0	99862.95	1908113.67	9.9994044	11.2806042

Min	3 Grad.			
	Sinus	Tang.	*Log.Sin.*	*Log.Tang.*
0	5233.60	5240.78	8.7188002	8.7193958
1	5262.64	5269.95	8.7212040	8.7218063
2	5291.69	5299.12	8.7235946	8.7242035
3	5320.74	5328.29	8.7259721	8.7265877
4	5349.79	5357.46	8.7283366	8.7289589
5	5378.83	5386.63	8.7306882	8.7313174
6	5407.88	5415.81	8.7330272	8.7336631
7	5436.93	5444.98	8.7353535	8.7359964
8	5465.97	5474.16	8.7376675	8.7383172
9	5495.02	5503.33	8.7399691	8.7406258
10	5524.06	5532.51	8.7422586	8.7429222
11	5553.11	5561.69	8.7445360	8.7452067
12	5582.15	5590.87	8.7468015	8.7474792
13	5611.19	5620.05	8.7490553	8.7497400
14	5640.24	5649.23	8.7512973	8.7519892
15	5669.28	5678.41	8.7535278	8.7542269
16	5698.32	5707.59	8.7557469	8.7564531
17	5727.36	5736.78	8.7579546	8.7586681
18	5756.40	5765.96	8.7601512	8.7608719
19	5785.44	5795.15	8.7623366	8.7630647
20	5814.48	5824.34	8.7645111	8.7652465
21	5843.52	5853.52	8.7666747	8.7674175
22	5872.56	5882.71	8.7688275	8.7695777
23	5901.60	5911.90	8.7709697	8.7717274
24	5930.64	5941.09	8.7731014	8.7738665
25	5959.67	5970.29	8.7752226	8.7759952
26	5988.71	5999.48	8.7773334	8.7781136
27	6017.75	6028.67	8.7794340	8.7802218
28	6046.78	6057.87	8.7815244	8.7823199
29	6075.82	6087.06	8.7836048	8.7844079
30	6104.85	6116.26	8.7856753	8.7864861

86 Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
60	99862.95	1908113.67	9.9994044	11.2806042
59	99861.42	1897552.26	9.9993978	11.2781937
58	99859.89	1887106.80	9.9993911	11.2757965
57	99858.35	1876775.39	9.9993844	11.2734123
56	99856.80	1866556.18	9.9993776	11.2710411
55	99855.24	1856447.34	9.9993708	11.2686826
54	99853.67	1846447.09	9.9993640	11.2663369
53	99852.09	1836553.70	9.9993572	11.2640036
52	99850.50	1826765.44	9.9993503	11.2616828
51	99848.91	1817080.67	9.9993433	11.2593742
50	99847.31	1807497.74	9.9993364	11.2570778
49	99845.70	1798015.05	9.9993293	11.2547933
48	99844.08	1788631.04	9.9993223	11.2525208
47	99842.45	1779344.17	9.9993152	11.2502600
46	99840.81	1770152.94	9.9993081	11.2480108
45	99839.16	1761055.88	9.9993009	11.2457731
44	99837.51	1752051.55	9.9992938	11.2435469
43	99835.85	1743138.54	9.9992865	11.2413319
42	99834.18	1734315.46	9.9992793	11.2391281
41	99832.50	1725580.95	9.9992720	11.2369353
40	99830.81	1716933.69	9.9992646	11.2347535
39	99829.11	1708372.38	9.9992572	11.2325825
38	99827.41	1699895.74	9.9992498	11.2304223
37	99825.70	1691502.51	9.9992424	11.2282726
36	99823.98	1683191.48	9.9992349	11.2261335
35	99822.25	1674961.44	9.9992274	11.2240048
34	99820.51	1666811.20	9.9992198	11.2218864
33	99818.76	1658739.62	9.9992122	11.2197782
32	99817.01	1650745.55	9.9992046	11.2176801
31	99815.25	1642827.89	9.9991969	11.2155921
30	99813.48	1634985.55	9.9991892	11.2135139

Min.	1. Grad. Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	2617.69	2618.59	8.4179190	8.4180679
31	2646.77	2647.70	8.4227168	8.4228690
32	2675.85	2676.81	8.4274621	8.4276176
33	2704.93	2705.92	8.4321561	8.4323150
34	2734.01	2735.03	8.4367999	8.4369622
35	2763.09	2764.14	8.4413944	8.4415603
36	2792.16	2793.25	8.4459409	8.4461103
37	2821.24	2822.36	8.4504402	8.4506131
38	2850.32	2851.48	8.4548934	8.4550699
39	2879.40	2880.59	8.4593013	8.4594814
40	2908.47	2909.70	8.4636649	8.4638486
41	2937.55	2938.82	8.4679850	8.4681725
42	2966.62	2967.93	8.4722626	8.4724538
43	2995.70	2997.05	8.4764984	8.4766933
44	3024.78	3026.16	8.4806932	8.4808920
45	3053.85	3055.28	8.4848479	8.4850505
46	3082.93	3084.39	8.4889632	8.4891696
47	3112.00	3113.51	8.4930398	8.4932502
48	3141.08	3142.63	8.4970784	8.4972928
49	3170.15	3171.74	8.5010798	8.5012982
50	3199.22	3200.86	8.5050447	8.5052671
51	3228.30	3229.98	8.5089736	8.5092001
52	3257.37	3259.10	8.5128673	8.5130978
53	3286.44	3288.22	8.5167264	8.5169610
54	3315.52	3317.34	8.5205514	8.5207902
55	3344.59	3346.46	8.5243430	8.5245860
56	3373.66	3375.58	8.5281017	8.5283490
57	3402.73	3404.71	8.5318281	8.5320797
58	3431.81	3433.83	8.5355228	8.5357787
59	3460.88	3462.95	8.5391863	8.5394466
60	3489.95	3492.08	8.5428192	8.5430838

86 Grad.

Min.	Sinus.	Tang.	*Log. Sin.*	*Log. Tang.*
30	99813.48	1634985.55	9.9991892	11.2135139
29	99811.70	1627217.44	9.9991815	11.2114456
28	99809.91	1619522.53	9.9991737	11.2093870
27	99808.11	1611899.79	9.9991659	11.2073380
26	99806.30	1604348.19	9.9991580	11.2052986
25	99804.49	1596866.74	9.9991501	11.2032687
24	99802.67	1589454.48	9.9991422	11.2012481
23	99800.84	1582110.45	9.9991342	11.1992368
22	99799.00	1574833.71	9.9991262	11.1972347
21	99797.15	1567623.33	9.9991182	11.1952417
20	99795.29	1560478.41	9.9991101	11.1932578
19	99793.43	1553398.06	9.9991020	11.1912828
18	99791.56	1546381.41	9.9990938	11.1893166
17	99789.68	1539427.60	9.9990856	11.1873593
16	99787.79	1532535.80	9.9990774	11.1854106
15	99785.89	1525705.17	9.9990691	11.1834706
14	99783.98	1518934.90	9.9990608	11.1815392
13	99782.06	1512224.20	9.9990525	11.1796162
12	99780.14	1505572.27	9.9990441	11.1777016
11	99778.21	1498978.36	9.9990357	11.1757954
10	99776.27	1492441.70	9.9990273	11.1738974
9	99774.32	1485961.55	9.9990188	11.1720076
8	99772.36	1479537.18	9.9990103	11.1701259
7	99770.39	1473167.87	9.9990017	11.1682522
6	99768.40	1466852.92	9.9989931	11.1663866
5	99766.44	1460591.63	9.9989845	11.1645288
4	99764.45	1454383.32	9.9989758	11.1626789
3	99762.45	1448227.32	9.9989671	11.1608367
2	99760.44	1442122.97	9.9989584	11.1590023
1	99758.42	1436069.61	9.9989496	11.1571755
0	99756.40	1430066.63	9.9989408	11.1553563

Min.	4 Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
0	6975.65	6992.68	8.8435845	8.8446437
1	7004.66	7021.91	8.8453874	8.8464554
2	7033.68	7051.15	8.8471827	8.8482597
3	7062.70	7080.38	8.8489707	8.8500566
4	7091.71	7109.61	8.8507512	8.8518461
5	7120.73	7138.85	8.8525245	8.8536283
6	7149.74	7168.09	8.8542905	8.8554034
7	7178.76	7197.33	8.8560493	8.8571713
8	7207.77	7226.57	8.8578010	8.8589321
9	7236.78	7255.81	8.8595457	8.8606859
10	7265.80	7285.05	8.8612833	8.8624327
11	7294.81	7314.30	8.8630139	8.8641725
12	7323.82	7343.54	8.8647376	8.8659055
13	7352.83	7372.79	8.8664545	8.8676317
14	7381.84	7402.03	8.8681646	8.8693511
15	7410.85	7431.28	8.8698680	8.8710638
16	7439.86	7460.53	8.8715646	8.8727699
17	7468.87	7489.79	8.8732546	8.8744694
18	7497.87	7519.04	8.8749381	8.8761623
19	7526.88	7548.29	8.8766150	8.8778487
20	7555.89	7577.55	8.8782854	8.8795286
21	7584.89	7606.80	8.8799493	8.8812022
22	7613.90	7636.06	8.8816069	8.8828694
23	7642.90	7665.32	8.8832581	8.8845303
24	7671.90	7694.58	8.8849031	8.8861850
25	7700.91	7723.84	8.8865418	8.8878334
26	7729.91	7753.11	8.8881743	8.8894757
27	7758.91	7782.37	8.8898007	8.8911119
28	7787.91	7811.64	8.8913209	8.8927420
29	7816.91	7840.90	8.8930351	8.8943660
30	7845.91	7870.17	8.8946433	8.895984

85.Grad.

Min.	Sinus	Tang.	Log.Sin.	Log.Tang.
60	99756.40	1430066.63	9.9989408	11.1553563
59	99754.37	1424113.37	9.9989319	11.1535446
58	99752.33	1418209.24	9.9989230	11.1517403
57	99750.28	1412353.63	9.9989141	11.1499434
56	99748.22	1406545.93	9.9989052	11.1481539
55	99746.15	1400785.56	9.9988962	11.1463717
54	99744.07	1395071.94	9.9988871	11.1445966
53	99741.99	1389404.51	9.9988780	11.1428287
52	99739.90	1383782.70	9.9988689	11.1410679
51	99737.80	1378205.98	9.9988598	11.1393141
50	99735.69	1372673.79	9.9988506	11.1375673
49	99733.57	1367185.60	9.9988414	11.1358275
48	99731.44	1361740.89	9.9988321	11.1340945
47	99729.31	1356339.15	9.9988228	11.1323683
46	99727.17	1350979.86	9.9988135	11.1306489
45	99725.02	1345662.53	9.9988041	11.1289362
44	99722.86	1340386.67	9.9987947	11.1272301
43	99720.69	1335151.79	9.9987853	11.1255306
42	99718.51	1329957.41	9.9987758	11.1238377
41	99716.32	1324803.07	9.9987663	11.1221513
40	99714.13	1319688.30	9.9987567	11.1204714
39	99711.93	1314612.66	9.9987471	11.1187978
38	99709.72	1309575.68	9.9987375	11.1171306
37	99707.50	1304576.93	9.9987278	11.1154697
36	99705.27	1299615.98	9.9987181	11.1138150
35	99703.03	1294692.40	9.9987084	11.1121666
34	99700.79	1289805.77	9.9986986	11.1105243
33	99698.54	1284955.66	9.9986888	11.1088881
32	99696.28	1280141.68	9.9986790	11.1072580
31	99694.01	1275363.41	9.9986691	11.1056340
30	99691.73	1270620.47	9.9986591	11.1040158

Min.	4 Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	7845.91	7870.17	8.8946433	8.8959842
31	7874.91	7899.44	8.8962455	8.8975963
32	7903.91	7928.71	8.8978418	8.8992026
33	7932.90	7957.98	8.8994322	8.9008030
34	7961.90	7987.26	8.9010168	8.9023977
35	7990.90	8016.53	8.9025955	8.9039866
36	8019.89	8045.81	8.9041685	8.9055697
37	8048.89	8075.09	8.9057358	8.9071472
38	8077.88	8104.37	8.9072975	8.9087190
39	8106.87	8133.65	8.9088535	8.9102853
40	8135.87	8162.93	8.9104039	8.9118460
41	8164.86	8192.21	8.9119487	8.9134012
42	8193.85	8221.50	8.9134881	8.9149509
43	8222.84	8250.78	8.9150219	8.9164952
44	8251.83	8280.07	8.9165504	8.9180340
45	8280.82	8309.36	8.9180734	8.9195675
46	8309.81	8338.65	8.9195911	8.9210957
47	8338.80	8367.94	8.9211034	8.9226186
48	8367.78	8397.23	8.9226105	8.9241363
49	8396.77	8426.53	8.9241123	8.9256487
50	8425.76	8455.83	8.9256089	8.9271560
51	8454.74	8485.12	8.9271003	8.9286581
52	8483.73	8514.42	8.9285866	8.9301552
53	8512.71	8543.72	8.9300678	8.9316471
54	8541.69	8573.02	8.9315439	8.9331340
55	8570.67	8602.33	8.9330150	8.9346160
56	8599.66	8631.63	8.9344811	8.9360929
57	8628.64	8660.94	8.9359422	8.9375650
58	8657.62	8690.25	8.9373983	8.9390321
59	8686.60	8719.56	8.9388496	8.9404944
60	8715.57	8748.87	8.9402960	8.9419518

85 Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	99691.73	1270620.47	9.9986591	11.1040158
29	99689.44	1265912.46	9.9986492	11.1024037
28	99687.15	1261239.00	9.9986392	11.1007974
27	99684.85	1256599.71	9.9986292	11.0991970
26	99682.54	1251994.20	9.9986191	11.0976023
25	99680.22	1247422.12	9.9986090	11.0960134
24	99677.89	1242883.10	9.9985988	11.0944303
23	99675.55	1238376.79	9.9985886	11.0928528
22	99673.20	1233902.82	9.9985784	11.0912810
21	99670.85	1229460.85	9.9985682	11.0897147
20	99668.49	1225050.55	9.9985579	11.0881540
19	99666.12	1220671.56	9.9985475	11.0865988
18	99663.74	1216323.56	9.9985372	11.0850491
17	99661.35	1212006.22	9.9985268	11.0835048
16	99658.95	1207719.22	9.9985163	11.0819660
15	99656.55	1203462.23	9.9985058	11.0804325
14	99654.14	1199234.95	9.9984953	11.0789043
13	99651.72	1195037.05	9.9984848	11.0773814
12	99649.29	1190868.24	9.9984742	11.0758637
11	99646.85	1186728.21	9.9984636	11.0743513
10	99644.40	1182616.67	9.9984529	11.0728440
9	99641.94	1178533.31	9.9984422	11.0713419
8	99639.48	1174477.86	9.9984315	11.0698448
7	99637.01	1170450.03	9.9984207	11.0683529
6	99634.53	1166449.53	9.9984099	11.0668660
5	99632.04	1162476.08	9.9983990	11.0653840
4	99629.54	1158529.42	9.9983881	11.0639071
3	99627.03	1154609.27	9.9983772	11.0624350
2	99624.52	1150715.36	9.9983663	11.0609670
1	99622.00	1146847.43	9.9983553	11.0595056
0	99619.47	1143005.23	9.9983442	11.0580482

Min.	5. Grad.			
	Sinus	Tang.	Log. Sin.	Log. Tang.
0	8715.57	8748.87	8.9402960	8.9419518
1	8744.55	8778.18	8.9417376	8.9434044
2	8773.53	8807.49	8.9431743	8.9448523
3	8802.51	8836.81	8.9446063	8.9462954
4	8831.48	8866.12	8.9460335	8.9477338
5	8860.46	8895.44	8.9474561	8.9491676
6	8889.43	8924.76	8.9488739	8.9505967
7	8918.40	8954.08	8.9502871	8.9520211
8	8947.38	8983.41	8.9516957	8.9534410
9	8976.35	9012.73	8.9530996	8.9548564
10	9005.32	9042.06	8.9544991	8.9562672
11	9034.29	9071.38	8.9558940	8.9576735
12	9063.26	9100.71	8.9572843	8.9590754
13	9092.23	9130.04	8.9586703	8.9604728
14	9121.19	9159.38	8.9600517	8.9618659
15	9150.16	9188.71	8.9614288	8.9632545
16	9179.13	9218.04	8.9628014	8.9646386
17	9208.09	9247.38	8.9641697	8.9660188
18	9237.06	9276.72	8.9655337	8.9673944
19	9266.02	9306.06	8.9668934	8.968765
20	9294.99	9335.40	8.9682487	8.970133
21	9323.95	9364.74	8.9695999	8.971495
22	9352.91	9394.09	8.9709468	8.972854
23	9381.87	9423.44	8.9722895	8.974209
24	9410.83	9452.78	8.9736280	8.975559
25	9439.79	9482.13	8.9749624	8.976906
26	9468.75	9511.48	8.9762926	8.978248
27	9497.71	9540.84	8.9776188	8.979586
28	9526.66	9570.19	8.9789408	8.980920
29	9555.62	9599.55	8.9802589	8.982250
30	9584.58	9628.90	8.9815729	8.983576

84. Grad,

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
60	99619.47	1143005.23	9.9983442	11.0580482
59	99616.93	1139188.49	9.9983332	11.056[illegible]956
58	99614.38	1135396.96	9.9983220	11.0551477
57	99611.82	1131630.40	9.9983109	11.0537046
56	99609.26	1127888.55	9.9982997	11.0522662
55	99606.69	1124171.17	9.9982885	11.0508324
54	99604.11	1120478.03	9.9982772	11.0494033
53	99601.52	1116808.88	9.9982660	11.0479789
52	99598.92	1113163.50	9.9982546	11.0465590
51	99596.31	1109541.64	9.9982433	11.0451436
50	99593.69	1105943.10	9.9982318	11.0437328
49	99591.07	1102367.63	9.9982204	11.0423265
48	99588.44	1098815.01	9.9982089	11.0409246
47	99585.80	1095285.04	9.9981974	11.0395272
46	99583.15	1091777.49	9.9981859	11.0381341
45	99580.49	1088292.14	9.9981743	11.0367455
44	99577.82	1084828.80	9.9981629	11.0353612
43	99575.15	1081387.24	9.9981510	11.0339812
42	99572.47	1077967.27	9.9981393	11.0326056
41	99569.78	1074568.68	9.9981275	11.0312342
40	99567.08	1071191.26	9.9981158	11.0298670
39	99564.37	1067834.84	9.9981040	11.0285041
38	99561.65	1064499.19	9.9980921	11.0271453
37	99558.92	1061184.14	9.9980802	11.0257908
36	99556.19	1057889.50	9.9980683	11.0244403
35	99553.45	1054615.07	9.9980563	11.0230940
34	99550.70	1051360.67	9.9980443	11.0217517
33	99547.94	1048126.11	9.9980323	11.0204135
32	99545.17	1044911.22	9.9980202	11.0190794
31	99542.40	1041715.81	9.9980081	11.0177493
30	99539.62	1038539.71	9.9979960	11.0164231

3 Grad.

Min	Sinus	Tang.	Log.Sin.	Log.Tang.
30	6104.85	6116.26	8.7856753	8.7864861
31	6133.89	6145.46	8.7877359	8.7885544
32	6162.92	6174.66	8.7897867	8.7906130
33	6191.96	6203.86	8.7918278	8.7926620
34	6220.99	6233.06	8.7938594	8.7947014
35	6250.02	6262.26	8.7958814	8.7967313
36	6279.05	6291.47	8.7978941	8.7987519
37	6308.08	6320.67	8.7998974	8.8007632
38	6337.11	6349.88	8.8018915	8.8027653
39	6366.14	6379.08	8.8038764	8.8047583
40	6395.17	6408.29	8.8058523	8.8067422
41	6424.20	6437.50	8.8078192	8.8087172
42	6453.23	6466.71	8.8097772	8.8106834
43	6482.26	6495.92	8.8117264	8.8126407
44	6511.29	6525.13	8.8136668	8.8145894
45	6540.31	6554.35	8.8155985	8.8165294
46	6569.34	6583.56	8.8175217	8.8184608
47	6598.36	6612.78	8.8194363	8.8203838
48	6627.39	6641.99	8.8213425	8.8222984
49	6656.41	6671.21	8.8232404	8.8242046
50	6685.44	6700.43	8.8251299	8.8261026
51	6714.46	6729.65	8.8270112	8.8279924
52	6743.48	6758.87	8.8288844	8.8298741
53	6772.51	6788.09	8.8307495	8.8317478
54	6801.53	6817.32	8.8326066	8.8336134
55	6830.55	6846.54	8.8344557	8.8354712
56	6859.57	6875.77	8.8362969	8.8373211
57	6888.59	6904.99	8.8381304	8.8391633
58	6917.61	6934.22	8.8399561	8.8409972
59	6946.63	6963.45	8.8417741	8.8428245
60	6975.65	6992.68	8.8435845	8.8446432

86 Grad.

Min.	Sinus.	Tang.	Log. Sin.	Log. Tang.
30	99813.48	1634985.55	9.9991892	11.21351
29	99811.70	1627217.44	9.9991815	11.211445
28	99809.91	1619522.53	9.9991737	11.209387
27	99808.11	1611899.79	9.9991659	11.207338
26	99806.30	1604348.19	9.9991580	11.205298
25	99804.49	1596866.74	9.9991501	11.203268
24	99802.67	1589454.48	9.9991422	11.201248
23	99800.84	1582110.45	9.9991342	11.199236
22	99799.00	1574833.71	9.9991262	11.197234
21	99797.15	1567623.33	9.9991182	11.195241
20	99795.29	1560478.41	9.9991101	11.193257
19	99793.43	1553398.06	9.9991020	11.191282
18	99791.56	1546381.41	9.9990938	11.189316
17	99789.68	1539427.60	9.9990856	11.187359
16	99787.79	1532535.80	9.9990774	11.185410
15	99785.89	1525705.17	9.9990691	11.183470
14	99783.98	1518934.90	9.9990608	11.181539
13	99782.06	1512224.20	9.9990525	11.179616
12	99780.14	1505572.27	9.9990441	11.177701
11	99778.21	1498978.36	9.9990357	11.175795
10	99776.27	1492441.70	9.9990273	11.173897
9	99774.32	1485961.55	9.9990188	11.172007
8	99772.36	1479537.18	9.9990103	11.170125
7	99770.39	1473167.87	9.9990017	11.168252
6	99768.40	1466852.92	9.9989931	11.166386
5	99766.44	1460591.63	9.9989845	11.164528
4	99764.45	1454383.32	9.9989758	11.162678
3	99762.45	1448227.32	9.9989671	11.160836
2	99760.44	1442122.97	9.9989584	11.159002
1	99758.42	1436069.61	9.9989496	11.157175
0	99756.40	1430066.63	9.9989408	11.155356

4 Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
0	6975.65	6992.68	8.8435845	8.8446437
1	7004.66	7021.91	8.8453874	8.8464554
2	7033.68	7051.15	8.8471827	8.8482597
3	7062.70	7080.38	8.8489707	8.8500566
4	7091.71	7109.61	8.8507512	8.8518461
5	7120.73	7138.85	8.8525245	8.8536283
6	7149.74	7168.09	8.8542905	8.8554034
7	7178.76	7197.33	8.8560493	8.8571713
8	7207.77	7226.57	8.8578010	8.8589321
9	7236.78	7255.81	8.8595457	8.8606859
10	7265.80	7285.05	8.8612833	8.8624327
11	7294.81	7314.30	8.8630139	8.8641725
12	7323.82	7343.54	8.8647376	8.8659055
13	7352.83	7372.79	8.8664545	8.8676317
14	7381.84	7402.03	8.8681646	8.8693511
15	7410.85	7431.28	8.8698680	8.8710638
16	7439.86	7460.53	8.8715646	8.8727699
17	7468.87	7489.79	8.8732546	8.8744694
18	7497.87	7519.04	8.8749381	8.8761623
19	7526.88	7548.29	8.8766150	8.8778487
20	7555.89	7577.55	8.8782854	8.8795286
21	7584.89	7606.80	8.8799493	8.8812022
22	7613.90	7636.06	8.8816069	8.8828694
23	7642.90	7665.32	8.8832581	8.8845303
24	7671.90	7694.58	8.8849031	8.8861850
25	7700.91	7723.84	8.8865418	8.8878334
26	7729.91	7753.11	8.8881743	8.8894757
27	7758.91	7782.37	8.8898007	8.8911119
28	7787.91	7811.64	8.8913209	8.8927420
29	7816.91	7840.90	8.8930351	8.8943660
30	7845.91	7870.17	8.8946433	8.8959842

85.Grad.

Min.	Sinus	Tang.	Log.Sin.	Log.Tang.
60	99756.40	1430066.63	9.9989408	11.1553563
59	99754.37	1424113.37	9.9989319	11.1535446
58	99752.33	1418209.24	9.9989230	11.1517403
57	99750.28	1412353.63	9.9989141	11.1499434
56	99748.22	1406545.93	9.9989052	11.1481539
55	99746.15	1400785.56	9.9988962	11.1463717
54	99744.07	1395071.94	9.9988871	11.1445966
53	99741.99	1389404.51	9.9988780	11.1428287
52	99739.90	1383782.70	9.9988689	11.1410679
51	99737.80	1378205.98	9.9988598	11.1393141
50	99735.69	1372673.79	9.9988506	11.1375673
49	99733.57	1367185.60	9.9988414	11.1358275
48	99731.44	1361740.89	9.9988321	11.1340945
47	99729.31	1356339.15	9.9988228	11.1323683
46	99727.17	1350979.86	9.9988135	11.1306489
45	99725.02	1345662.53	9.9988041	11.1289362
44	99722.86	1340386.67	9.9987947	11.1272301
43	99720.69	1335151.79	9.9987853	11.1255306
42	99718.51	1329957.41	9.9987758	11.1238377
41	99716.32	1324803.07	9.9987663	11.122151
40	99714.13	1319688.30	9.9987567	11.120471
39	99711.93	1314612.66	9.9987471	11.118797
38	99709.72	1309575.68	9.9987375	11.117130
37	99707.50	1304576.93	9.9987278	11.115469
36	99705.27	1299615.98	9.9987181	11.113815
35	99703.03	1294692.40	9.9987084	11.112166
34	99700.79	1289805.77	9.9986986	11.110524
33	99698.54	1284955.66	9.9986888	11.108888
32	99696.28	1280141.68	9.9986790	11.107258
31	99694.01	1275363.41	9.9986691	11.105634
30	99691.73	1270620.47	9.9986591	11.104015

Min.	4 Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	7845.91	7870.17	8.8946433	8.8959842
31	7874.91	7899.44	8.8962455	8.8975963
32	7903.91	7928.71	8.8978418	8.8992026
33	7932.90	7957.98	8.8994322	8.9008030
34	7961.90	7987.26	8.9010168	8.9023977
35	7990.90	8016.53	8.9025955	8.9039866
36	8019.89	8045.81	8.9041685	8.9055697
37	8048.89	8075.09	8.9057358	8.9071472
38	8077.88	8104.37	8.9072975	8.9087190
39	8106.87	8133.65	8.9088535	8.9102853
40	8135.87	8162.93	8.9104039	8.9118460
41	8164.86	8192.21	8.9119487	8.9134012
42	8193.85	8221.50	8.9134881	8.9149509
43	8222.84	8250.78	8.9150219	8.9164952
44	8251.83	8280.07	8.9165504	8.9180340
45	8280.82	8309.36	8.9180734	8.9195675
46	8309.81	8338.65	8.9195911	8.9210957
47	8338.80	8367.94	8.9211034	8.9226186
48	8367.78	8397.23	8.9226105	8.9241363
49	8396.77	8426.53	8.9241123	8.9256487
50	8425.76	8455.83	8.9256089	8.9271560
51	8454.74	8485.12	8.9271003	8.9286581
52	8483.73	8514.42	8.9285866	8.9301552
53	8512.71	8543.72	8.9300678	8.9316471
54	8541.69	8573.02	8.9315439	8.9331340
55	8570.67	8602.33	8.9330150	8.9346160
56	8599.66	8631.63	8.9344811	8.9360929
57	8628.64	8660.94	8.9359422	8.9375650
58	8657.62	8690.25	8.9373983	8.9390321
59	8686.60	8719.56	8.9388496	8.9404944
60	8715.57	8748.87	8.9402960	8.9419518

85 Grad.

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	99691.73	1270620.47	9.9986591	11.1040158
29	99689.44	1265912.46	9.9986492	11.1024037
28	99687.15	1261239.00	9.9986392	11.1007974
27	99684.85	1256599.71	9.9986292	11.0991970
26	99682.54	1251994.20	9.9986191	11.0976023
25	99680.22	1247422.12	9.9986090	11.0960134
24	99677.89	1242883.10	9.9985988	11.0944303
23	99675.55	1238376.79	9.9985886	11.0928528
22	99673.20	1233902.82	9.9985784	11.0912810
21	99670.85	1229460.85	9.9985682	11.0897147
20	99668.49	1225050.55	9.9985579	11.0881540
19	99666.12	1220671.56	9.9985475	11.0865988
18	99663.74	1216323.56	9.9985372	11.0850491
17	99661.35	1212006.22	9.9985268	11.0835048
16	99658.95	1207719.22	9.9985163	11.0819660
15	99656.55	1203462.23	9.9985058	11.0804325
14	99654.14	1199234.95	9.9984953	11.0789043
13	99651.72	1195037.05	9.9984848	11.0773814
12	99649.29	1190868.24	9.9984742	11.0758637
11	99646.85	1186728.21	9.9984636	11.0743513
10	99644.40	1182616.67	9.9984529	11.0728440
9	99641.94	1178533.31	9.9984422	11.0713419
8	99639.48	1174477.86	9.9984315	11.0698448
7	99637.01	1170450.03	9.9984207	11.0683529
6	99634.53	1166449.53	9.9984099	11.0668660
5	99632.04	1162476.08	9.9983990	11.0653840
4	99629.54	1158529.42	9.9983881	11.0639071
3	99627.03	1154609.27	9.9983772	11.0624350
2	99624.52	1150715.36	9.9983663	11.0609670
1	99622.00	1146847.43	9.9983553	11.0595056
0	99619.47	1143005.23	9.9983442	11.0580482

5. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
0	8715.57	8748.87	8.9402960	8.9419518
1	8744.55	8778.18	8.9417376	8.9434044
2	8773.53	8807.49	8.9431743	8.9448523
3	8802.51	8836.81	8.9446063	8.9462954
4	8831.48	8866.12	8.9460335	8.9477338
5	8860.46	8895.44	8.9474561	8.9491676
6	8889.43	8924.76	8.9488739	8.9505967
7	8918.40	8954.08	8.9502871	8.9520211
8	8947.38	8983.41	8.9516957	8.9534410
9	8976.35	9012.73	8.9530996	8.9548564
10	9005.32	9042.06	8.9544991	8.9562672
11	9034.29	9071.38	8.9558940	8.9576735
12	9063.26	9100.71	8.9572843	8.9590754
13	9092.23	9130.04	8.9586703	8.9604728
14	9121.19	9159.38	8.9600517	8.9618659
15	9150.16	9188.71	8.9614288	8.9632545
16	9179.13	9218.04	8.9628014	8.9646386
17	9208.09	9247.38	8.9641697	8.9660188
18	9237.06	9276.72	8.9655337	8.9673944
19	9266.02	9306.06	8.9668934	8.9687658
20	9294.99	9335.40	8.9682487	8.9701330
21	9323.95	9364.74	8.9695999	8.9714959
22	9352.91	9394.09	8.9709468	8.9728547
23	9381.87	9423.44	8.9722895	8.9742092
24	9410.83	9452.78	8.9736280	8.9755597
25	9439.79	9482.13	8.9749624	8.9769060
26	9468.75	9511.48	8.9762926	8.9782483
27	9497.71	9540.84	8.9776188	8.9795865
28	9526.66	9570.19	8.9789408	8.9809206
29	9555.62	9599.55	8.9802589	8.9822507
30	9584.58	9628.90	8.9815729	8.9835769

Min.	84. Grad,			
	Sinus	Tang.	Log. Sin.	Log. Tang.
60	99619.47	1143005.23	9.9983442	11.0580482
59	99616.93	1139188.49	9.9983332	11.056[illegible]956
58	99614.38	1135396.96	9.9983220	11.0551477
57	99611.82	1131630.40	9.9983109	11.0537046
56	99609.26	1127888.55	9.9982997	11.0522662
55	99606.69	1124171.17	9.9982885	11.0508324
54	99604.11	1120478.03	9.9982772	11.0494033
53	99601.52	1116808.88	9.9982660	11.0479789
52	99598.92	1113163.50	9.9982546	11.0465590
51	99596.31	1109541.64	9.9982433	11.0451436
50	99593.69	1105943.10	9.9982318	11.0437328
49	99591.07	1102367.63	9.9982204	11.0423265
48	99588.44	1098815.01	9.9982089	11.0409246
47	99585.80	1095285.04	9.9981974	11.0395272
46	99583.15	1091777.49	9.9981859	11.0381341
45	99580.49	1088292.14	9.9981743	11.0367455
44	99577.82	1084828.80	9.9981629	11.0353612
43	99575.15	1081387.24	9.9981510	11.0339812
42	99572.47	1077967.27	9.9981393	11.0326056
41	99569.78	1074568.68	9.9981275	11.0312342
40	99567.08	1071191.26	9.9981158	11.0298670
39	99564.37	1067834.84	9.9981040	11.0285041
38	99561.65	1064499.19	9.9980921	11.0271453
37	99558.92	1061184.14	9.9980802	11.0257908
36	99556.19	1057889.50	9.9980683	11.0244403
35	99553.45	1054615.07	9.9980563	11.0230940
34	99550.70	1051360.67	9.9980443	11.0217517
33	99547.94	1048126.11	9.9980323	11.0204135
32	99545.17	1044911.22	9.9980202	11.0190794
31	99542.40	1041715.81	9.9980081	11.0177493
30	99539.62	1038539.71	9.9979960	11.0164231

5. Grad.

Min.	Sinus	Tang.	Log Sin.	Log. Tang.
30	9584.58	9628.90	8.9815729	8.9835769
31	9613.53	9658.26	8.9828829	8.9848991
32	9642.48	9687.63	8.9841889	8.9862173
33	9671.44	9716.99	8.9854910	8.9875317
34	9700.39	9746.35	8.9867891	8.9888421
35	9729.34	9775.72	8.9880834	8.9901487
36	9758.29	9805.09	8.9893737	8.9914514
37	9787.24	9834.46	8.9906602	8.9927503
38	9816.19	9863.83	8.9919429	8.9940454
39	9845.14	9893.20	8.9932217	8.9953367
40	9874.08	9922.57	8.9944968	8.9966243
41	9903.03	9951.95	8.9957681	8.9979081
42	9931.97	9981.33	8.9970356	8.9991883
43	9960.92	10010.71	8.9982994	9.0004647
44	9989.86	10040.09	8.9995595	9.0017375
45	10018.81	10069.47	9.0008160	9.0030066
46	10047.75	10098.85	9.0020687	9.0042721
47	10076.69	10128.24	9.0033179	9.0055340
48	10105.63	10157.63	9.0045634	9.0067924
49	10134.57	10187.02	9.0058053	9.0080471
50	10163.51	10216.41	9.0070436	9.0092984
51	10192.45	10245.80	9.0082784	9.0105461
52	10221.38	10275.20	9.0095096	9.0117903
53	10250.32	10304.60	9.0107374	9.0130310
54	10279.25	10334.00	9.0119616	9.0142682
55	10308.19	10363.40	9.0131823	9.0155021
56	10337.12	10392.80	9.0143996	9.0167325
57	10366.05	10422.20	9.0156135	9.0179594
58	10394.99	10451.60	9.0168239	9.0191831
59	10423.92	10481.01	9.0180309	9.0204033
60	10452.85	10510.42	9.0192346	9.0216202

84 Grad.

Min	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	99539.62	1038539.71	9.9979960	11.0164231
29	99536.83	1035382.74	9.9979838	11.0151009
28	99534.03	1032244.73	9.9979716	11.0137827
27	99531.22	1029125.51	9.9979593	11.0124683
26	99528.40	1026024.90	9.9979470	11.0111579
25	99525.57	1022942.76	9.9979347	11.0098513
24	99522.74	1019878.90	9.9979223	11.0085486
23	99519.90	1016833.16	9.9979099	11.0072497
22	99517.05	1013805.39	9.9978975	11.0059546
21	99514.19	1010795.42	9.9978850	11.0046633
20	99511.32	1007803.11	9.9978725	11.0033757
19	99508.44	1004828.28	9.9978599	11.0020916
18	99505.55	1001870.80	9.9978473	11.0008117
17	99502.66	1998930.50	9.9978347	10.9995353
16	99499.76	1996007.24	9.9978220	10.9982625
15	99496.85	1993100.88	9.9978093	10.9969934
14	99493.93	1990211.25	9.9977966	10.9957279
13	99491.00	1987338.23	9.9977838	10.9944660
12	99488.06	1984481.66	9.9977710	10.9932076
11	99485.12	1981641.40	9.9977582	10.9919529
10	99482.17	1978817.32	9.9977453	10.9907016
9	99479.21	1976009.27	9.9977323	10.9894539
8	99476.24	1973217.13	9.9977194	10.9882097
7	99473.26	1970440.75	9.9977064	10.9869690
6	99470.27	1967680.00	9.9976933	10.9857318
5	99467.28	1964934.75	9.9976803	10.9844979
4	99464.28	1962204.86	9.9976672	10.9832675
3	99461.27	1959490.22	9.9976540	10.9820406
2	99458.25	1956790.68	9.9976408	10.9808169
1	99455.22	1954106.13	9.9976276	10.9795967
0	99452.18	1951436.45	9.9976143	10.9783798

6 Grad,

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
0	10452.85	10510.42	9.0192346	9.0216202
1	10481.78	10539.83	9.0204348	9.0228338
2	10510.70	10569.24	9.0216318	9.0240441
3	10539.63	10598.66	9.0228254	9.0252510
4	10568.56	10628.08	9.0240157	9.0264548
5	10597.48	10657.50	9.0252027	9.0276552
6	10626.41	10686.92	9.0263865	9.0288524
7	10655.33	10716.34	9.0275669	9.0300464
8	10684.25	10745.76	9.0287442	9.0312373
9	10713.18	10775.19	9.0299182	9.0324249
10	10742.10	10804.62	9.0310890	9.0336093
11	10771.02	10834.05	9.0322567	9.0347906
12	10799.94	10863.48	9.0334212	9.0359688
13	10828.85	10892.91	9.0345825	9.0371439
14	10857.77	10922.34	9.0357407	9.0383159
15	10886.69	10951.78	9.0368958	9.0394848
16	10915.60	10981.22	9.0380477	9.0406506
17	10944.52	11010.66	9.0391966	9.0418134
18	10973.43	11040.10	9.0403424	9.0429731
19	11002.34	11069.54	9.0414852	9.0441299
20	11031.26	11098.99	9.0426249	9.0452836
21	11060.17	11128.44	9.0437617	9.0464343
22	11089.08	11157.89	9.0448954	9.0475821
23	11117.99	11187.34	9.0460261	9.0487270
24	11146.89	11216.79	9.0471538	9.0498689
25	11175.80	11246.25	9.0482786	9.0510078
26	11204.71	11275.71	9.0494005	9.0521439
27	11233.61	11305.17	9.0505194	9.0532771
28	11262.52	11334.63	9.0516354	9.0544074
29	11291.42	11364.09	9.0527485	9.0555349
30	11320.32	11393.56	9.0538588	9.0566595

Min.	83 Grad.			
	Sinus	Tang.	*Log.Sin.*	*Log. Tang.*
60	99452.18	951436.45	9.9976143	10.9783798
59	99449.14	948781.49	9.9976011	10.9771662
58	99446.09	946141.16	9.9975877	10.9759559
57	99443.03	943515.31	9.9975743	10.9747490
56	99439.96	940903.84	9.9975609	10.9735452
55	99436.88	938306.63	9.9975475	10.9723448
54	99433.79	935723.55	9.9975340	10.9711476
53	99430.69	933154.50	9.9975205	10.9699536
52	99427.59	930599.36	9.9975069	10.9687627
51	99424.48	928058.02	9.9974933	10.9675751
50	99421.36	925530.35	9.9974797	10.9663907
49	99418.23	923016.27	9.9974660	10.9652094
48	99415.09	920515.64	9.9974523	10.9640312
47	99411.94	918028.38	9.9974386	10.9628561
46	99408.79	915554.36	9.9974248	10.9616841
45	99405.63	913093.48	9.9974110	10.9605152
44	99402.46	910645.64	9.9973971	10.9593494
43	99399.28	908210.74	9.9973833	10.9581866
42	99396.09	905788.67	9.9973693	10.9570269
41	99392.89	903379.33	9.9973554	10.9558701
40	99389.69	900982.61	9.9973414	10.9547164
39	99386.48	898598.43	9.9973273	10.9535657
38	99383.26	896226.68	9.9973132	10.9524179
37	99380.03	893867.26	9.9972991	10.9512730
36	99376.79	891520.08	9.9972850	10.9501311
35	99373.54	889185.05	9.9972708	10.9489922
34	99370.28	886862.06	9.9972566	10.9478561
33	99367.02	884551.03	9.9972423	10.9467229
32	99363.75	882251.86	9.9972280	10.9455926
31	99360.47	879964.46	9.9972137	10.94 651
30	99357.18	877688.74	9.9971993	10.9433405

Min.	6 Grad. Sinus	Tang.	Log. Sin.	Log. Tang.
30	11320.32	11393.56	9.0538588	9.0566595
31	11349.22	11423.03	9.0549661	9.0577813
32	11378.12	11452.50	9.0560706	9.0589002
33	11407.02	11481.97	9.0571723	9.0600164
34	11435.92	11511.44	9.0582711	9.0611297
35	11464.82	11540.91	9.0593671	9.0622403
36	11493.71	11570.39	9.0604604	9.0633482
37	11522.61	11599.87	9.0615509	9.0644533
38	11551.51	11629.35	9.0626386	9.0655556
39	11580.40	11658.83	9.0637235	9.0666553
40	11609.29	11688.31	9.0648057	9.0677522
41	11638.18	11717.80	9.0658852	9.0688465
42	11667.07	11747.29	9.0669619	9.0699381
43	11695.96	11776.78	9.0680360	9.0710270
44	11724.85	11806.28	9.0691074	9.0721133
45	11753.74	11835.78	9.0701761	9.0731969
46	11782.63	11865.28	9.0712421	9.0742779
47	11811.51	11894.78	9.0723055	9.0753563
48	11840.40	11924.28	9.0733663	9.0764321
49	11869.28	11953.78	9.0744244	9.0775053
50	11898.16	11983.28	9.0754799	9.0785760
51	11927.04	12012.79	9.0765329	9.0796441
52	11955.93	12042.30	9.0775832	9.0807096
53	11984.81	12071.81	9.0786310	9.0817726
54	12013.68	12101.32	9.0796762	9.0828331
55	12042.56	12130.84	9.0807189	9.0838911
56	12071.44	12160.36	9.0817590	9.0849466
57	12100.31	12189.88	9.0827966	9.0859996
58	12129.19	12219.40	9.0838317	9.0870501
59	12158.06	12248.93	9.0848643	9.0880981
60	12186.93	12278.46	9.0858945	9.0891438

83 Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	99357.18	877688.74	9.9971993	10.9433405
29	99353.88	875424.61	9.9971849	10.9422187
28	99350.58	873171.98	9.9971704	10.9410998
27	99347.27	870930.77	9.9971559	10.9399836
26	99343.95	868700.88	9.9971414	10.9388703
25	99340.62	866482.23	9.9971268	10.9377597
24	99337.28	864274.75	9.9971122	10.9366518
23	99333.93	862078.33	9.9970976	10.9355467
22	99330.57	859892.90	9.9970829	10.9344444
21	99327.20	857718.38	9.9970682	10.9333447
20	99323.83	855554.68	9.9970535	10.9322478
19	99320.45	853401.72	9.9970387	10.9311535
18	99317.06	851259.43	9.9970239	10.9300619
17	99313.66	849127.72	9.9970090	10.9289730
16	99310.25	847006.51	9.9969941	10.9278867
15	99306.84	844895.73	9.9969792	10.9268031
14	99303.42	842795.31	9.9969642	10.9257221
13	99299.99	840705.15	9.9969492	10.9246437
12	99296.55	838625.19	9.9969342	10.9235679
11	99293.10	836555.36	9.9969191	10.9224947
10	99289.64	834495.57	9.9969040	10.9214240
9	99286.17	832445.77	9.9968888	10.9203559
8	99282.70	830405.86	9.9968736	10.9192904
7	99279.22	828375.79	9.9968584	10.9182274
6	99275.73	826355.47	9.9968431	10.9171669
5	99272.23	824344.85	9.9968278	10.9161089
4	99268.72	822343.84	9.9968125	10.9150534
3	99265.21	820352.39	9.9967971	10.9140004
2	99261.69	818370.41	9.9967817	10.9129499
1	99258.16	816397.86	9.9967662	10.9119019
0	99254.62	814434.64	9.9967507	10.9108562

7.Grad.

Min.	Sinus	Tang.	*Log.Sin.*	*Log.Tang.*
0	12186.93	12278.46	9.0858945	9.0891438
1	12215.81	12307.99	9.0869221	9.0901869
2	12244.68	12337.52	9.0879473	9.0912277
3	12273.55	12367.05	9.0889700	9.0922660
4	12302.41	12396.58	9.0899903	9.0933020
5	12331.28	12426.12	9.0910082	9.0943355
6	12360.15	12455.66	9.0920237	9.0953669
7	12389.01	12485.20	9.0930367	9.0963955
8	12417.88	12514.74	9.0940474	9.0974219
9	12446.74	12544.29	9.0950556	9.0984460
10	12475.60	12573.84	9.0960615	9.0994678
11	12504.46	12603.39	9.0970651	9.1004872
12	12533.32	12632.94	9.0980662	9.1015044
13	12562.18	12662.49	9.0990651	9.1025192
14	12591.04	12692.05	9.1000616	9.1035317
15	12619.90	12721.61	9.1010558	9.1045420
16	12648.75	12751.17	9.1020477	9.1055500
17	12677.61	12780.73	9.1030373	9.1065557
18	12706.46	12810.29	9.1040246	9.1075591
19	12735.31	12839.86	9.1050096	9.1085604
20	12764.16	12869.43	9.1059924	9.1095594
21	12793.01	12899.00	9.1069729	9.1105562
22	12821.86	12928.57	9.1079512	9.1115508
23	12850.71	12958.15	9.1089272	9.1125431
24	12879.56	12987.73	9.1099010	9.1135333
25	12908.41	13017.31	9.1108726	9.1145213
26	12937.25	13046.89	9.1118420	9.1155072
27	12966.09	13076.48	9.1128092	9.1164909
28	12994.94	13106.07	9.1137742	9.1174724
29	13023.78	13135.66	9.1147370	9.1184518
30	13052.62	13165.25	9.1156977	9.1194291

82 Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
60	99254.62	814434.64	9.9967507	10.9108562
59	99251.07	812480.71	9.9967352	10.9098131
58	99247.51	810535.99	9.9967196	10.9087723
57	99243.94	808600.42	9.9967040	10.9077340
56	99240.36	806673.94	9.9966884	10.9066980
55	99236.78	804756.47	9.9966727	10.9056645
54	99233.19	802847.96	9.9966570	10.9046333
53	99229.59	800948.35	9.9966412	10.9036045
52	99225.98	799057.56	9.9966254	10.9025781
51	99222.36	797175.55	9.9966096	10.9015540
50	99218.74	795302.24	9.9965937	10.9005322
49	99215.11	793437.58	9.9965778	10.8995128
48	99211.47	791581.51	9.9965619	10.8984956
47	99207.82	789733.96	9.9965459	10.8974808
46	99204.16	787894.89	9.9965299	10.8964683
45	99200.49	786064.23	9.9965138	10.8954580
44	99196.81	784241.91	9.9964977	10.8944500
43	99193.13	782427.90	9.9964816	10.8934443
42	99189.44	780622.12	9.9964655	10.8924406
41	99185.74	778824.53	9.9964493	10.8914396
40	99182.03	777035.06	9.9964330	10.8904406
39	99178.31	775253.66	9.9964167	10.8894438
38	99174.59	773480.28	9.9964004	10.8884492
37	99170.86	771714.86	9.9963841	10.8874569
36	99167.12	769957.35	9.9963677	10.8864667
35	99163.37	768207.69	9.9963513	10.8854787
34	99159.61	766465.84	9.9963348	10.8844928
33	99155.84	764731.74	9.9963183	10.8835091
32	99152.06	763005.33	9.9963018	10.8825276
31	99148.28	761286.57	9.9962852	10.8815482
30	99144.49	759575.41	9.9962686	10.8805709

7 Grad.

Min.	Sinus	Tang.	Log.Sin.	Log. Tang.
30	13052.62	13165.25	9.1156977	9.1194291
31	13081.46	13194.84	9.1166562	9.1204043
32	13110.30	13224.44	9.1176125	9.1213773
33	13139.13	13254.04	9.1185667	9.1223482
34	13167.97	13283.64	9.1195188	9.1233171
35	13196.81	13313.24	9.1204688	9.1242839
36	13225.64	13342.85	9.1214167	9.1252486
37	13254.47	13372.46	9.1223624	9.1262112
38	13283.30	13402.07	9.1233061	9.1271718
39	13312.13	13431.68	9.1242477	9.1281303
40	13340.96	13461.29	9.1251872	9.1290868
41	13369.79	13490.91	9.1261246	9.1300413
42	13398.62	13520.53	9.1270600	9.1309937
43	13427.44	13550.15	9.1279934	9.1319442
44	13456.27	13579.77	9.1289247	9.1328926
45	13485.09	13609.40	9.1298539	9.1338391
46	13513.92	13639.03	9.1307812	9.1347835
47	13542.74	13668.66	9.1317064	9.1357260
48	13571.56	13698.29	9.1326297	9.1366665
49	13600.38	13727.93	9.1335509	9.1376051
50	13629.19	13757.57	9.1344702	9.1385417
51	13658.01	13787.21	9.1353875	9.1394764
52	13686.83	13816.85	9.1363028	9.1404092
53	13715.64	13846.50	9.1372161	9.1413400
54	13744.45	13876.15	9.1381275	9.1422689
55	13773.27	13905.80	9.1390370	9.1431959
56	13802.08	13935.45	9.1399445	9.1441210
57	13830.89	13965.10	9.1408501	9.1450442
58	13859.70	13994.76	9.1417537	9.1459655
59	13888.50	14024.42	9.1426555	9.1468850
60	13917.31	14054.08	9.1435553	9.1478025

82. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	99144.49	759575.41	9.9962686	10.8805709
29	99140.69	757871.79	9.9962519	10.8795957
28	99136.88	756175.67	9.9962352	10.8786227
27	99133.06	754486.99	9.9962185	10.8776518
26	99129.23	752805.71	9.9962017	10.8766829
25	99125.39	751131.78	9.9961849	10.8757161
24	99121.55	749465.14	9.9961681	10.8747514
23	99117.70	747805.76	9.9961512	10.8737888
22	99113.84	746153.57	9.9961343	10.8728282
21	99109.97	744508.55	9.9961174	10.8718697
20	99106.09	742870.64	9.9961004	10.8709132
19	99102.21	741239.78	9.9960834	10.8699587
18	99098.32	739615.95	9.9960663	10.8690063
17	99094.42	737999.09	9.9960492	10.8680558
16	99090.51	736389.16	9.9960321	10.8671074
15	99086.59	734786.10	9.9960149	10.8661609
14	99082.66	733189.89	9.9959977	10.8652165
13	99078.72	731600.47	9.9959804	10.8642740
12	99074.78	730017.80	9.9959631	10.8633335
11	99070.83	728441.84	9.9959458	10.8623949
10	99066.87	726872.55	9.9959284	10.8614583
9	99062.90	725309.87	9.9959111	10.8605236
8	99058.92	723753.78	9.9958936	10.8595908
7	99054.93	722204.22	9.9958761	10.8586600
6	99050.94	720661.16	9.9958586	10.8577311
5	99046.94	719124.56	9.9958411	10.8568041
4	99042.93	717594.37	9.9958235	10.8558790
3	99038.91	716070.56	9.9958059	10.8549558
2	99034.88	714553.08	9.9957882	10.8540345
1	99030.84	713041.90	9.9957705	10.8531150
0	99026.80	711536.97	9.9957528	10.8521975

8. Grad.

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
0	13917.31	14054.08	9.1435553	9.1478025
1	13946.12	14083.74	9.1444532	9.1487182
2	13974.92	14113.41	9.1453493	9.1496321
3	14003.72	14143.08	9.1462435	9.1505441
4	14032.52	14172.75	9.1471358	9.1514543
5	14061.32	14202.43	9.1480262	9.1523627
6	14090.12	14232.11	9.1489148	9.1532692
7	14118.92	14261.79	9.1498015	9.1541739
8	14147.72	14291.47	9.1506864	9.1550769
9	14176.51	14321.15	9.1515694	9.1559780
10	14205.31	14350.84	9.1524507	9.1568773
11	14234.10	14380.53	9.1533301	9.1577748
12	14262.89	14410.22	9.1542076	9.1586706
13	14291.68	14439.91	9.1550834	9.1595646
14	14320.47	14469.61	9.1559574	9.1604569
15	14349.26	14499.31	9.1568296	9.1613473
16	14378.05	14529.01	9.1577000	9.1622361
17	14406.84	14558.71	9.1585686	9.1631231
18	14435.62	14588.42	9.1594354	9.1640083
19	14464.40	14618.13	9.1603005	9.1648919
20	14493.19	14647.84	9.1611639	9.1657737
21	14521.97	14677.55	9.1620254	9.1666538
22	14550.75	14707.27	9.1628853	9.1675322
23	14579.53	14736.99	9.1637434	9.1684089
24	14608.30	14766.71	9.1645998	9.1692839
25	14637.08	14796.44	9.1654544	9.1701572
26	14665.85	14826.17	9.1663074	9.1710289
27	14694.63	14855.90	9.1671586	9.1718989
28	14723.40	14885.63	9.1680081	9.1727672
29	14752.17	14915.36	9.1688559	9.1736338
30	14780.94	14945.10	9.1697021	9.1744988

Min.	81.Grad.			
	Sinus.	Tang.	*Log. Sin.*	*Log. Tang.*
60	99026.80	711536.97	9.9957528	10.8521975
59	99022.75	710038.26	9.9957350	10.8512818
58	99018.69	708545.73	9.9957172	10.8503679
57	99014.62	707059.34	9.9956993	10.8494559
56	99010.54	705579.05	9.9956815	10.8485457
55	99006.45	704104.82	9.9956635	10.8476373
54	99002.36	702636.62	9.9956456	10.8467308
53	98998.26	701174.41	9.9956276	10.8458261
52	98994.15	699718.06	9.9956095	10.8449231
51	98990.03	698267.81	9.9955915	10.8440220
50	98985.90	696823.35	9.9955734	10.8431227
49	98981.76	695384.73	9.9955552	10.8422252
48	98977.62	693951.92	9.9955370	10.8413294
47	98973.47	692524.89	9.9955188	10.8404354
46	98969.31	691103.59	9.9955005	10.8395431
45	98965.14	689687.99	9.9954822	10.8386527
44	98960.96	688278.07	9.9954639	10.8377639
43	98956.77	686873.78	9.9954455	10.8368769
42	98952.57	685475.08	9.9954271	10.8359917
41	98948.37	684081.96	9.9954087	10.8351081
40	98944.16	682694.37	9.9953902	10.8342263
39	98939.94	681312.27	9.9953717	10.8333462
38	98935.71	679935.65	9.9953531	10.8324678
37	98931.47	678564.46	9.9953345	10.8315911
36	98927.23	677198.67	9.9953159	10.8307161
35	98922.98	675838.26	9.9952972	10.8298428
34	98918.72	674483.18	9.9952785	10.8289711
33	98914.45	673133.41	9.9952597	10.8281011
32	98910.17	671788.91	9.9952409	10.8272328
31	98905.88	670449.66	9.9952221	10.8263662
30	98901.58	669115.62	9.9952033	10.8255012

8. Grad.

Min.	Sinus	Tang.	Log Sin.	Log. Tang.
30	14780.94	14945.10	9.1697021	9.1744988
31	14809.71	14974.84	9.1705465	9.1753622
32	14838.48	15004.58	9.1713893	9.1762239
33	14867.24	15034.33	9.1722305	9.1770840
34	14896.01	15064.08	9.1730699	9.1779425
35	14924.77	15093.83	9.1739077	9.1787993
36	14953.53	15123.58	9.1747439	9.1796546
37	14982.30	15153.33	9.1755784	9.1805082
38	15011.06	15183.09	9.1764112	9.1813602
39	15039.81	15212.85	9.1772425	9.1822106
40	15068.57	15242.61	9.1780721	9.1830595
41	15097.33	15272.38	9.1789001	9.1839068
42	15126.08	15302.15	9.1797265	9.1847525
43	15154.84	15331.92	9.1805512	9.1855966
44	15183.59	15361.89	9.1813744	9.1864392
45	15212.34	15391.47	9.1821960	9.1872802
46	15241.09	15421.25	9.1830160	9.1881196
47	15269.84	15451.03	9.1838344	9.1889575
48	15298.58	15480.82	9.1846512	9.1897939
49	15327.33	15510.61	9.1854665	9.1906287
50	15356.07	15540.40	9.1862802	9.1914621
51	15384.82	15570.19	9.1870923	9.1922939
52	15413.56	15599.98	9.1879029	9.1931241
53	15442.30	15629.78	9.1887120	9.1939529
54	15471.04	15659.58	9.1895195	9.1947802
55	15499.78	15689.38	9.1903254	9.1956059
56	15528.51	15719.19	9.1911299	9.1964302
57	15557.25	15749.00	9.1919328	9.1972530
58	15585.98	15778.81	9.1927341	9.1980743
59	15614.72	15808.62	9.1935341	9.1988941
60	15643.45	15838.44	9.1943324	9.1997125

81. Grad.

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	98901.58	669115.62	9.9952033	10.8255012
29	98897.28	667786.77	9.9951844	10.8246378
28	98892.97	666463.07	9.9951654	10.8237761
27	98888.65	665144.49	9.9951464	10.8229260
26	98884.32	663831.00	9.9951274	10.8220575
25	98879.98	662522.58	9.9951084	10.8212007
24	98875.63	661219.19	9.9950893	10.8203454
23	98871.28	659920.80	9.9950702	10.8194918
22	98866.92	658627.39	9.9950510	10.8186398
21	98862.55	657338.92	9.9950318	10.8177894
20	98858.17	656055.38	9.9950126	10.8169405
19	98853.78	654776.72	9.9949933	10.8160932
18	98849.38	653502.93	9.9949740	10.8152475
17	98844.98	652233.96	9.9949546	10.8144034
16	98840.57	650969.81	9.9949352	10.8135608
15	98836.15	649710.43	9.9949158	10.8127198
14	98831.72	648455.81	9.9948964	10.8118804
13	98827.28	647205.91	9.9948769	10.8110425
12	98822.83	645960.70	9.9948573	10.8102061
11	98818.38	644720.17	9.9948377	10.8093713
10	98813.92	643484.28	9.9948181	10.8085379
9	98809.45	642253.01	9.9947985	10.8077061
8	98804.97	641026.33	9.9947788	10.8068759
7	98800.48	639804.22	9.9947591	10.8060471
6	98795.98	638586.65	9.9947393	10.8052198
5	98791.48	637373.59	9.9947195	10.8043941
4	98786.97	636165.02	9.9946997	10.8035698
3	98782.45	634960.92	9.9946798	10.8027470
2	98777.92	633761.26	9.9946597	10.8019257
1	98773.38	632566.01	9.9946399	10.8011059
0	98768.83	631375.15	9.9946199	10.8002875

Min.	9.Grad.			
	Sinus	Tang.	*Log.Sin.*	*Log. Tang.*
0	15643.45	15838.44	9.1943324	9.1997125
1	15672.18	15868.26	9.1951293	9.2005294
2	15700.91	15898.08	9.1959247	9.2013449
3	15729.63	15927.91	9.1967186	9.2021588
4	15758.36	15957.74	9.1975110	9.2029714
5	15787.08	15987.57	9.1983019	9.2037825
6	15815.81	16017.40	9.1990913	9.2045922
7	15844.53	16047.24	9.1998793	9.2054004
8	15873.25	16077.08	9.2006658	9.2062072
9	15901.97	16106.92	9.2014509	9.2070126
10	15930.69	16136.77	9.2022345	9.2078165
11	15959.40	16166.62	9.2030167	9.2086191
12	15988.12	16196.47	9.2037974	9.2094203
13	16016.83	16226.32	9.2045766	9.2102200
14	16045.55	16256.17	9.2053545	9.2110184
15	16074.26	16286.03	9.2061309	9.2118153
16	16102.97	16315.89	9.2069059	9.2126109
17	16131.67	16345.76	9.2076795	9.2134051
18	16160.38	16375.63	9.2084516	9.2141980
19	16189.09	16405.50	9.2092224	9.2149894
20	16217.79	16435.37	9.2099917	9.2157795
21	16246.50	16465.25	9.2107597	9.2165683
22	16275.20	16495.13	9.2115263	9.2173556
23	16303.90	16525.01	9.2122914	9.2181417
24	16332.60	16554.89	9.2130552	9.2189264
25	16361.29	16584.78	9.2138176	9.2197097
26	16389.99	16614.67	9.2145787	9.2204917
27	16418.68	16644.56	9.2153384	9.2212724
28	16447.38	16674.46	9.2160967	9.2220518
29	16476.07	16704.36	9.2168536	9.2228299
30	16504.76	16734.26	9.2176092	9.2236066

80. Grad.

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
60	98768.83	631375.15	9.9946199	10.8002875
59	98764.28	630188.66	9.9945999	10.7994706
58	98759.72	629006.51	9.9945798	10.7986551
57	98755.15	627828.68	9.9945597	10.7978411
56	98750.57	626655.14	9.9945396	10.7970286
55	98745.98	625485.88	9.9945194	10.7962175
54	98741.38	624320.86	9.9944992	10.7954078
53	98736.77	623160.07	9.9944789	10.7945996
52	98732.16	622003.47	9.9944587	10.7937928
51	98727.54	620851.06	9.9944383	10.7929874
50	98722.91	619702.79	9.9944180	10.7921835
49	98718.27	618558.67	9.9943975	10.7913809
48	98713.62	617418.65	9.9943771	10.7905797
47	98708.97	616282.72	9.9943566	10.7897800
46	98704.31	615150.85	9.9943361	10.7889816
45	98699.64	614023.03	9.9943156	10.7881847
44	98694.96	612899.23	9.9942950	10.7873891
43	98690.27	611779.43	9.9942743	10.7865949
42	98685.57	610663.60	9.9942537	10.7858020
41	98680.86	609551.74	9.9942330	10.7850106
40	98676.15	608443.81	9.9942122	10.7842205
39	98671.43	607339.79	9.9941914	10.7834317
38	98666.70	606239.67	9.9941706	10.7826444
37	98661.96	605143.43	9.9941498	10.7818583
36	98657.21	604051.03	9.9941289	10.7810736
35	98652.46	602962.47	9.9941079	10.7802903
34	98647.70	601877.72	9.9940870	10.7795083
33	98642.93	600796.76	9.9940659	10.7787276
32	98638.15	599719.57	9.9940449	10.7779482
31	98633.36	598646.14	9.9940238	10.7771702
30	98628.56	597576.44	9.9940027	10.7763935

9. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	16504.76	16734.26	9.2176092	9.2236065
31	16533.45	16764.16	9.2183635	9.2243819
32	16562.14	16794.07	9.2191164	9.2251561
33	16590.82	16823.98	9.2198680	9.2259289
34	16619.51	16853.89	9.2206182	9.2267004
35	16648.19	16883.81	9.2213671	9.2274706
36	16676.87	16913.73	9.2221147	9.2282395
37	16705.55	16943.65	9.2228609	9.2290071
38	16734.23	16973.58	9.2236059	9.2297735
39	16762.91	17003.51	9.2243495	9.2305386
40	16791.59	17033.44	9.2250918	9.2313024
41	16820.26	17063.37	9.2258328	9.2320650
42	16848.94	17093.31	9.2265725	9.2328262
43	16877.61	17123.25	9.2273110	9.2335863
44	16906.28	17153.19	9.2280481	9.2343451
45	16934.95	17183.14	9.2287839	9.2351026
46	16963.62	17213.09	9.2295185	9.2358589
47	16992.28	17243.04	9.2302518	9.2366139
48	17020.95	17273.00	9.2309838	9.2373678
49	17049.61	17302.96	9.2317145	9.2381203
50	17078.28	17332.92	9.2324440	9.238871
51	17106.94	17362.88	9.2331722	9.239621
52	17135.60	17392.85	9.2338992	9.240370
53	17164.25	17422.82	9.2346249	9.241118
54	17192.91	17452.79	9.2353494	9.241865
55	17221.56	17482.77	9.2360726	9.242610
56	17250.22	17512.75	9.2367946	9.243354
57	17278.87	17542.73	9.2375153	9.244097
58	17307.52	17572.72	9.2382349	9.244838
59	17336.17	17602.71	9.2389532	9.245579
60	17364.82	17632.70	9.2396702	9.246318

Min.	80. Grad.			
	Sinus	Tang.	*Log Sin.*	*Log. Tang.*
30	98628.56	597576.44	9.9940027	10.7763935
29	98623.75	596510.45	9.9939815	10.7756181
28	98618.94	595448.15	9.9939603	10.7748439
27	98614.12	594389.52	9.9939391	10.7740711
26	98609.29	593334.55	9.9939178	10.7732996
25	98604.45	592283.22	9.9938965	10.7725294
24	98599.60	591235.50	9.9938752	10.7717605
23	98594.74	590191.38	9.9938538	10.7709929
22	98589.88	589150.84	9.9938324	10.7702265
21	98585.01	588113.86	9.9938109	10.7694614
20	98580.13	587080.42	9.9937894	10.7686976
19	98575.24	586050.51	9.9937679	10.7679350
18	98570.34	585024.10	9.9937463	10.7671738
17	98565.44	584001.17	9.9937247	10.7664137
16	98560.53	582981.72	9.9937030	10.7656549
15	98555.61	581965.72	9.9936813	10.7648974
14	98550.68	580953.15	9.9936596	10.7641411
13	98545.74	579944.00	9.9936378	10.7633861
12	98540.79	578938.25	9.9936160	10.7626322
11	98535.83	577935.88	9.9935942	10.7618797
10	98530.87	576936.88	9.9935723	10.7611283
9	98525.90	575941.22	9.9935504	10.7603782
8	98520.92	574948.89	9.9935285	10.7596292
7	98515.93	573959.88	9.9935065	10.7588815
6	98510.93	572974.16	9.9934844	10.7581350
5	98505.92	571991.73	9.9934624	10.7573897
4	98500.91	571012.56	9.9934403	10.7566457
3	98495.89	570036.63	9.9934181	10.7559028
2	98490.86	569063.94	9.9933959	10.7551611
1	98485.82	568094.46	9.9933737	10.7544206
0	98480.77	567128.18	9.9933515	10.7536812

10. Grad,

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
0	17364.82	17632.70	9.2396702	9.2463188
1	17393.46	17662.69	9.2403861	9.2470569
2	17422.11	17692.69	9.2411007	9.2477939
3	17450.75	17722.69	9.2418141	9.2485297
4	17479.39	17752.69	9.2425264	9.2492643
5	17508.03	17782.70	9.2432374	9.2499978
6	17536.67	17812.71	9.2439472	9.2507301
7	17565.31	17842.72	9.2446558	9.2514612
8	17593.95	17872.74	9.2453632	9.2521912
9	17622.58	17902.76	9.2460695	9.2529200
10	17651.21	17932.78	9.2467746	9.2536477
11	17679.84	17962.81	9.2474784	9.2543743
12	17708.47	17992.84	9.2481811	9.2550997
13	17737.10	18022.87	9.2488827	9.2558240
14	17765.73	18052.91	9.2495830	9.2565472
15	17794.35	18082.95	9.2502822	9.2572691
16	17822.98	18112.99	9.2509803	9.2579901
17	17851.60	18143.03	9.2516772	9.2587099
18	17880.22	18173.08	9.2523729	9.2594285
19	17908.84	18203.13	9.2530675	9.2601461
20	17937.46	18233.18	9.2537609	9.2608625
21	17966.07	18263.24	9.2544532	9.2615779
22	17994.69	18293.30	9.2551444	9.2622921
23	18023.30	18323.36	9.2558344	9.2630053
24	18051.91	18353.43	9.2565233	9.2637173
25	18080.52	18383.50	9.2572110	9.2644283
26	18109.13	18413.57	9.2578977	9.2651381
27	18137.74	18443.65	9.2585833	9.2658470
28	18166.35	18473.73	9.2592676	9.2665547
29	18194.95	18503.81	9.2599509	9.2672613
30	18223.55	18533.90	9.2606330	9.2679669

Min.	79.Grad.			
	Sinus	Tang.	*Log.Sin.*	*Log.Tang.*
60	98480.77	567128.18	9.9933515	10.7536812
59	98475.71	566165.09	9.9933292	10.7529431
58	98470.65	565205.16	9.9933068	10.7522061
57	98465.58	564248.38	9.9932845	10.7514703
56	98460.50	563294.74	9.9932621	10.7507357
55	98455.41	562344.21	9.9932396	10.7500022
54	98450.31	561396.80	9.9932171	10.7492699
53	98445.21	560452.47	9.9931946	10.7485388
52	98440.10	559511.21	9.9931720	10.7478088
51	98434.98	558573.02	9.9931494	10.7470800
50	98429.85	557637.86	9.9931268	10.7463523
49	98424.71	556705.74	9.9931041	10.7456257
48	98419.56	555776.63	9.9930814	10.7449003
47	98414.40	554850.52	9.9930587	10.7441760
46	98409.24	553927.40	9.9930359	10.7434528
45	98404.07	553007.24	9.9930131	10.7427308
44	98398.89	552090.05	9.9929902	10.7420099
43	98393.70	551175.79	9.9929673	10.7412901
42	98388.50	550264.46	9.9929444	10.7405715
41	98383.29	549356.04	9.9929214	10.7398539
40	98378.08	548450.52	9.9928984	10.7391375
39	98372.86	547547.88	9.9928753	10.7384221
38	98367.63	546648.12	9.9928522	10.7377079
37	98362.39	545751.21	9.9928291	10.7369947
36	98357.14	544857.15	9.9928059	10.7362827
35	98351.89	543965.92	9.9927827	10.7355717
34	98346.63	543077.50	9.9927595	10.7348618
33	98341.36	542191.88	9.9927362	10.7341530
32	98336.08	541309.06	9.9927129	10.7334453
31	98330.79	540429.01	9.9926895	10.7327387
30	98325.49	549551.72	9.9926661	10.7320331

10. Grad.

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	18223.55	18533.90	9.2606330	9.2679669
31	18252.15	18563.99	9.2613141	9.2686714
32	18280.75	18594.08	9.2619941	9.2693749
33	18309.35	18624.18	9.2626729	9.2700772
34	18337.95	18654.28	9.2633507	9.2707786
35	18366.54	18684.38	9.2640274	9.2714788
36	18395.13	18714.49	9.2647030	9.2721780
37	18423.73	18744.60	9.2653775	9.2728762
38	18452.32	18774.71	9.2660509	9.2735733
39	18480.91	18804.83	9.2667232	9.2742694
40	18509.49	18834.95	9.2673945	9.2749644
41	18538.08	18865.07	9.2680647	9.2756584
42	18566.66	18895.20	9.2687338	9.2763514
43	18595.24	18925.33	9.2694019	9.2770434
44	18623.82	18955.46	9.2700689	9.2777343
45	18652.40	18985.59	9.2707348	9.2784242
46	18680.98	19015.73	9.2713997	9.2791131
47	18709.56	19045.87	9.2720635	9.2798009
48	18738.13	19076.02	9.2727263	9.2804878
49	18766.70	19106.17	9.2733880	9.2811736
50	18795.27	19136.32	9.2740487	9.2818585
51	18823.84	19166.48	9.2747083	9.2825423
52	18852.41	19196.64	9.2753669	9.2832251
53	18880.98	19226.80	9.2760245	9.2839070
54	18909.54	19256.96	9.2766811	9.2845878
55	18938.11	19287.13	9.2773366	9.2852677
56	18966.67	19317.30	9.2779911	9.2859466
57	18995.23	19347.48	9.2786445	9.2866245
58	19023.79	19377.66	9.2792970	9.2873014
59	19052.34	19407.84	9.2799484	9.2879773
60	19080.90	19438.03	9.2805988	9.28[illegible]6523

79.Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	98325.49	539551.72	9.9926661	10.7320331
29	98320.18	538677.18	9.9926427	10.7313286
28	98314.87	537805.38	9.9926192	10.7306251
27	98309.55	536936.30	9.9925957	10.7299228
26	98304.22	536069.93	9.9925722	10.7292214
25	98298.88	535206.26	9.9925486	10.7285212
24	98293.53	534345.27	9.9925250	10.7278220
23	98288.17	533486.96	9.9925013	10.7271238
22	98282.81	532631.31	9.9924776	10.7264267
21	98277.44	531778.30	9.9924539	10.7257306
20	98272.06	530927.93	9.9924301	10.7250356
19	98266.67	530080.18	9.9924063	10.7243416
18	98261.27	529235.05	9.9923824	10.7236486
17	98255.87	528392.51	9.9923585	10.7229566
16	98250.46	527552.55	9.9923346	10.7222657
15	98245.04	526715.17	9.9923106	10.7215758
14	98239.61	525880.35	9.9922866	10.7208869
13	98234.17	525048.09	9.9922626	10.7201991
12	98228.72	524218.36	9.9922385	10.7195122
11	98223.27	523391.16	9.9922144	10.7188264
10	98217.81	522566.47	9.9921900	10.7181415
9	98212.34	521744.28	9.9921660	10.7174577
8	98206.86	520924.59	9.9921418	10.7167749
7	98201.37	520107.38	9.9921175	10.7160930
6	98195.87	519292.64	9.9920932	10.7154122
5	98190.36	518480.35	9.9920689	10.7147323
4	98184.85	517670.51	9.9920445	10.7140534
3	98179.33	516863.11	9.9920201	10.7133755
2	98173.80	516058.13	9.9919956	10.7126986
1	98168.26	515255.57	9.9919711	10.7120227
0	98162.71	514455.40	9.9919466	10.7113745

11. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
0	19080.90	19438.03	9.2805988	9.2886523
1	19109.45	19468.22	9.2812483	9.2893263
2	19138.00	19498.41	9.2818967	9.2899993
3	19166.55	19528.61	9.2825441	9.2906713
4	19195.10	19558.81	9.2831905	9.2913424
5	19223.65	19589.01	9.2838359	9.2920126
6	19252.20	19619.22	9.2844803	9.2926817
7	19280.74	19649.43	9.2851237	9.2933500
8	19309.28	19679.64	9.2857661	9.2940172
9	19337.82	19709.86	9.2864076	9.2946836
10	19366.36	19740.06	9.2870480	9.2953489
11	19394.90	19770.30	9.2876875	9.2960134
12	19423.44	19800.53	9.2883260	9.2966769
13	19451.97	19830.76	9.2889636	9.2973395
14	19480.50	19861.00	9.2896001	9.2980011
15	19509.03	19891.24	9.2902357	9.2986618
16	19537.56	19921.48	9.2908704	9.2993216
17	19566.09	19951.72	9.2915040	9.2999804
18	19594.61	19981.97	9.2921367	9.3006383
19	19623.14	20012.22	9.2927685	9.3012954
20	19651.66	20042.48	9.2933993	9.3019514
21	19680.18	20072.74	9.2940291	9.3026066
22	19708.70	20103.00	9.2946580	9.3032609
23	19737.22	20133.27	9.2952859	9.303914
24	19765.73	20163.54	9.2959129	9.3045667
25	19794.25	20193.81	9.2965390	9.305218
26	19822.76	20224.09	9.2971641	9.3058689
27	19851.27	20254.37	9.2977883	9.306518
28	19879.78	20284.65	9.2984116	9.3071675
29	19908.29	20314.94	9.2990339	9.3078155
30	19936.79	20345.23	9.2996553	9.308462

78. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
60	98162.71	514455.40	9.9919466	10.7113477
59	98157.16	513657.63	9.9919220	10.7106737
58	98151.60	512862.24	9.9918974	10.7100007
57	98146.03	512069.21	9.9918727	10.7093287
56	98140.45	511278.55	9.9918480	10.7086576
55	98134.86	510490.24	9.9918233	10.7079874
54	98129.26	509704.26	9.9917986	10.7073183
53	98123.66	508920.61	9.9917737	10.7066500
52	98118.05	508139.28	9.9917489	10.7059828
51	98112.43	507360.25	9.9917240	10.7053164
50	98106.80	506583.52	9.9916991	10.7046511
49	98101.16	505809.07	9.9916741	10.7039866
48	98095.51	505036.90	9.9916492	10.7033231
47	98089.86	504267.00	9.9916241	10.7026605
46	98084.20	503499.35	9.9915990	10.7019989
45	98078.53	502733.95	9.9915739	10.7013382
44	98072.85	501970.78	9.9915488	10.7006784
43	98067.16	501209.84	9.9915236	10.7000196
42	98061.46	500451.11	9.9914984	10.6993617
41	98055.76	499694.59	9.9914731	10.6987046
40	98050.05	498940.27	9.9914478	10.6980486
39	98044.33	498188.13	9.9914225	10.6973934
38	98038.60	497438.17	9.9913971	10.6967391
37	98032.86	496690.37	9.9913717	10.6960857
36	98027.11	495944.74	9.9913462	10.6954333
35	98021.36	495201.25	9.9913207	10.6947817
34	98015.60	494459.90	9.9912952	10.6941311
33	98009.83	493720.68	9.9912696	10.6934813
32	98004.05	492983.58	9.9912440	10.6928325
31	97998.26	492248.59	9.9912184	10.6921845
30	97992.47	491515.70	9.9911927	10.6915374

11. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	19936.79	20345.23	9.2996553	9.3084626
31	19965.30	20375.52	9.3002758	9.3091088
32	19993.80	20405.82	9.3008953	9.3097541
33	20022.30	20436.12	9.3015140	9.3103985
34	20050.80	20466.43	9.3021317	9.3110421
35	20079.30	20496.74	9.3027485	9.3116848
36	20107.79	20527.05	9.3033644	9.3123266
37	20136.29	20557.37	9.3039794	9.3129675
38	20164.78	20587.69	9.3045934	9.3136076
39	20193.27	20618.01	9.3052066	9.3142468
40	20221.76	20648.34	9.3058189	9.3148851
41	20250.24	20678.67	9.3064303	9.3155226
42	20278.73	20709.00	9.3070407	9.3161592
43	20307.21	20739.34	9.3076503	9.3167950
44	20335.69	20769.68	9.3082590	9.3174299
45	20364.17	20800.03	9.3088668	9.3180640
46	20392.65	20830.38	9.3094737	9.3186972
47	20421.13	20860.73	9.3100798	9.3193295
48	20449.61	20891.09	9.3106849	9.3199611
49	20478.08	20921.45	9.3112892	9.3205918
50	20506.55	20951.81	9.3118926	9.3212216
51	20535.02	20982.18	9.3124951	9.3218506
52	20563.49	21012.55	9.3130968	9.3224788
53	20591.95	21042.93	9.3136976	9.3231061
54	20620.42	21073.31	9.3142975	9.3237327
55	20648.88	21103.69	9.3148965	9.3243584
56	20677.34	21134.07	9.3154947	9.3249832
57	20705.80	21164.46	9.3160921	9.3256073
58	20734.26	21194.85	9.3166885	9.3262305
59	20762.71	21225.25	9.3172841	9.3268529
60	20791.17	21255.65	9.3178789	9.3274745

78. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	97992.47	491515.70	9.9911927	10.6915374
29	97986.67	490784.91	9.9911670	10.6908912
28	97980.86	490056.20	9.9911412	10.6902459
27	97975.04	489329.56	9.9911154	10.6896015
26	97969.21	488604.99	9.9910896	10.6889579
25	97963.37	487882.48	9.9910637	10.6883152
24	97957.52	487162.01	9.9910378	10.6876734
23	97951.67	486443.59	9.9910119	10.6870325
22	97945.81	485727.19	9.9909859	10.6863924
21	97939.94	485012.82	9.9909598	10.6857532
20	97934.06	484300.45	9.9909338	10.6851149
19	97928.17	483590.10	9.9909077	10.6844774
18	97922.28	482881.74	9.9908815	10.6838408
17	97916.38	482175.36	9.9908553	10.6832050
16	97910.47	481470.96	9.9908291	10.6825701
15	97904.55	480768.54	9.9908029	10.6819360
14	97898.62	480068.08	9.9907766	10.6813028
13	97892.68	489369.57	9.9907502	10.6806705
12	97886.74	478673.00	9.9907239	10.6800389
11	97880.79	477978.37	9.9906974	10.6794082
10	97874.83	477285.67	9.9906710	10.6787784
9	97868.86	476594.90	9.9906445	10.6781494
8	97862.88	475906.03	9.9906180	10.6775212
7	97856.89	475219.07	9.9905914	10.6768939
6	97850.90	474534.01	9.9905648	10.6762673
5	97844.90	473850.83	9.9905382	10.6756416
4	97838.89	473169.54	9.9905115	10.6750168
3	97832.87	472490.12	9.9904848	10.6743927
2	97826.84	471812.56	9.9904580	10.6737695
1	97820.80	471136.86	9.9904312	10.6731471
0	97814.76	470463.01	9.9904044	10.6725255

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	28401.53	29621.35	9.4533418	9.4716048
31	28429.42	29652.99	9.4537681	9.4720685
32	28457.31	29684.64	9.4541939	9.4725318
33	28485.20	29716.30	9.4546192	9.4729947
34	28513.08	29747.96	9.4550441	9.4734571
35	28540.96	29779.62	9.4554686	9.4739192
36	28568.84	29811.29	9.4558926	9.4743808
37	28596.71	29842.97	9.4563161	9.4748421
38	28624.58	29874.65	9.4567392	9.4753029
39	28652.45	29906.34	9.4571618	9.4757633
40	28680.32	29938.03	9.4575840	9.4762233
41	28708.19	29969.73	9.4580058	9.4766829
42	28736.05	30001.44	9.4584271	9.4771421
43	28763.91	30033.15	9.4588480	9.4776009
44	28791.77	30064.86	9.4592684	9.4780592
45	28819.63	30096.58	9.4596884	9.4785172
46	28847.48	30128.31	9.4601079	9.4789748
47	28875.33	30160.04	9.4605270	9.4794319
48	28903.18	30191.78	9.4609456	9.4798887
49	28931.03	30223.52	9.4613638	9.4803451
50	28958.87	30255.27	9.4617816	9.4808011
51	28986.71	30287.03	9.4621989	9.4812566
52	29014.55	30318.79	9.4626158	9.4817118
53	29042.39	30350.55	9.4630323	9.4821666
54	29070.22	30382.32	9.4634483	9.4826210
55	29098.05	30414.10	9.4638639	9.4830750
56	29125.88	30445.88	9.4642790	9.4835286
57	29153.71	30477.67	9.4646938	9.4839818
58	29181.53	30509.46	9.4651081	9.4844346
59	29209.35	30541.26	9.4655219	9.4848870
60	29237.17	30573.07	9.4659353	9.4853390

Min.	Sinus	Tang.	*Log.Sin.*	*Log. Tang.*
30	95881.97	337594.34	9.9817370	10.5283952
29	95873.70	337234.08	9.9816995	10.5279315
28	95865.43	336874.53	9.9816620	10.5274682
27	95857.15	336515.68	9.9816245	10.5270053
26	95848.86	336157.53	9.9815870	10.5265428
25	95840.56	335800.08	9.9815494	10.5260808
24	95832.25	335443.33	9.9815117	10.5256192
23	95823.94	335087.28	9.9814740	10.5251579
22	95815.62	334731.91	9.9814363	10.5246971
21	95807.29	334377.24	9.9813986	10.5242367
20	95798.95	334023.26	9.9813608	10.5237767
19	95790.60	333669.97	9.9813229	10.5233171
18	95782.25	333317.36	9.9812850	10.5228579
17	95773.89	332965.43	9.9812471	10.5223991
16	95765.52	332614.19	9.9812091	10.5219408
15	95757.14	332263.62	9.9811711	10.5214828
14	95748.75	331913.73	9.9811331	10.5210252
13	95740.35	331564.52	9.9810950	10.5205681
12	95731.95	331215.98	9.9810569	10.5201113
11	95723.54	330868.11	9.9810187	10.5196549
10	95715.12	330520.91	9.9809805	10.5191989
9	95706.69	330174.38	9.9809423	10.5187434
8	95698.25	329828.51	9.9809040	10.5182882
7	95689.81	329483.30	9.9808657	10.5178334
6	95681.36	329138.76	9.9808273	10.5173790
5	95672.90	328794.87	9.9807889	10.5169250
4	95664.43	328451.64	9.9807505	10.5164714
3	95655.95	328109.07	9.9807120	10.5160182
2	95647.47	327767.15	9.9806735	10.5155654
1	95638.98	327425.88	9.9806349	10.5151130
0	95630.48	327085.26	9.9805963	10.5146610

Min.	17 Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
0	29237.17	30573.07	9.4659353	9.4853390
1	29264.99	30604.88	9.4663483	9.4857907
2	29292.80	30636.69	9.4667609	9.4862419
3	29320.61	30668.51	9.4671730	9.4866928
4	29348.42	30700.34	9.4675848	9.4871433
5	29376.23	30732.18	9.4679960	9.4875933
6	29404.03	30764.02	9.4684069	9.4880430
7	29431.83	30795.86	9.4688173	9.4884924
8	29459.63	30827.71	9.4692273	9.4889413
9	29487.43	30859.57	9.4696369	9.4893898
10	29515.22	30891.43	9.4700461	9.4898380
11	29543.01	30923.30	9.4704548	9.4902858
12	29570.80	30955.17	9.4708631	9.4907332
13	29598.59	30987.05	9.4712710	9.4911802
14	29626.38	31018.93	9.4716785	9.4916269
15	29654.16	31050.82	9.4720856	9.4920731
16	29681.94	31082.72	9.4724922	9.4925190
17	29709.71	31114.62	9.4728985	9.4929646
18	29737.49	31146.53	9.4733043	9.4934097
19	29765.26	31178.44	9.4737097	9.4938545
20	29793.03	31210.36	9.4741146	9.4942988
21	29820.79	31242.29	9.4745192	9.4947429
22	29848.56	31274.22	9.4749234	9.4951865
23	29876.32	31306.16	9.4753271	9.4956298
24	29904.08	31338.10	9.4757304	9.4960727
25	29931.84	31370.05	9.4761334	9.4965152
26	29959.59	31402.00	9.4765359	9.4969574
27	29987.34	31433.96	9.4769380	9.4973991
28	30015.09	31465.93	9.4773396	9.497840
29	30042.84	31497.90	9.4777409	9.498281
30	30070.58	31529.88	9.4781418	9.498722

72. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
60	95630.48	327085.26	9.9805963	10.5146610
59	95621.97	326745.29	9.9805577	10.5142093
58	95613.45	326405.96	9.9805190	10.5137581
57	95604.92	326067.28	9.9804803	10.5133072
56	95596.39	325729.24	9.9804415	10.5128567
55	95587.85	325391.84	9.9804027	10.5124067
54	95579.30	325055.08	9.9803639	10.5119570
53	95570.74	324718.95	9.9803250	10.5115076
52	95562.17	324383.46	9.9802860	10.5110587
51	95553.60	324048.60	9.9802471	10.5106102
50	95545.02	323714.38	9.9802081	10.5101620
49	95536.43	323380.78	9.9801690	10.5097142
48	95527.83	323047.80	9.9801299	10.5092668
47	95519.22	322715.46	9.9800908	10.5088198
46	95510.61	322383.73	9.9800516	10.5083731
45	95501.99	322052.63	9.9800124	10.5079269
44	95493.36	321722.15	9.9799732	10.5074810
43	95484.72	321392.28	9.9799339	10.5070354
42	95476.07	321063.04	9.9798946	10.5065903
41	95467.42	320734.40	9.9798552	10.5061455
40	95458.76	320406.38	9.9798158	10.5057012
39	95450.09	320078.97	9.9797764	10.5052571
38	95441.41	319752.17	9.9797369	10.5048135
37	95432.72	319425.98	9.9796973	10.5043702
36	95424.03	319100.39	9.9796578	10.5039273
35	95415.33	318775.40	9.9796182	10.5034848
34	95406.62	318451.02	9.9795785	10.5030426
33	95397.90	318127.24	9.9795388	10.5026009
32	95389.17	317804.06	9.9794991	10.5021594
31	95380.43	317481.47	9.9794593	10.5017184
30	95371.69	317159.48	9.9794195	10.5012777

17.Grad.

Min.	Sinus	Taag.	Log.Sin.	Log.Tang.
30	30070.58	31529.88	9.4781418	9.4987223
31	30098.32	31561.86	9.4785423	9.4991626
32	30126.06	31593.85	9.4789423	9.4996026
33	30153.80	31625.85	9.4793420	9.5000422
34	30181.53	31657.85	9.4797412	9.5004814
35	30209.26	31689.86	9.4801401	9.5009203
36	30236.99	31721.87	9.4805385	9.5013588
37	30264.71	31753.89	9.4809366	9.5017969
38	30292.44	31785.91	9.4813342	9.5022347
39	30320.16	31817.94	9.4817315	9.5026721
40	30347.88	31849.98	9.4821283	9.5031092
41	30375.59	31882.02	9.4825248	9.5035459
42	30403.31	31914.07	9.4829208	9.5039822
43	30431.02	31946.13	9.4833165	9.5044182
44	30458.72	31978.19	9.4837117	9.5048538
45	30486.43	32010.25	9.4841066	9.5052891
46	30514.13	32042.32	9.4845010	9.5057240
47	30541.83	32074.40	9.4848951	9.5061586
48	30569.53	32106.49	9.4852888	9.5065928
49	30597.23	32138.58	9.4856820	9.5070267
50	30624.92	32170.67	9.4860749	9.5074602
51	30652.61	32202.77	9.4864674	9.5078933
52	30680.29	32234.88	9.4868595	9.5083261
53	30707.98	32267.00	9.4872512	9.5087586
54	30735.66	32299.12	9.4876426	9.5091907
55	30763.34	32331.25	9.4880335	9.5096224
56	30791.02	32363.38	9.4884240	9.5100539
57	30818.69	32395.52	9.4888142	9.5104849
58	30846.36	32427.66	9.4892040	9.5109156
59	30874.03	32459.81	9.4895934	9.5113460
60	30901.70	32491.97	9.4899824	9.5117760

Min.	72.Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	95371.69	317159.48	9.9794195	10.5012777
29	95362.94	316838.08	9.9793796	10.5008374
28	95354.18	316517.28	9.9793398	10.5003974
27	95345.41	316197.06	9.9792998	10.4999578
26	95336.64	315877.44	9.9792599	10.4995186
25	95327.86	315558.40	9.9792198	10.4990797
24	95319.07	315239.94	9.9791798	10.4986412
23	95310.27	314922.07	9.9791397	10.4982031
22	95301.46	314604.78	9.9790996	10.4977653
21	95292.64	314288.07	9.9790594	10.4973279
20	95283.82	313971.94	9.9790192	10.4968908
19	95274.99	313656.39	9.9789789	10.4964541
18	95266.15	313341.41	9.9789386	10.4960178
17	95257.30	313027.01	9.9788983	10.4955818
16	95248.44	312713.17	9.9788579	10.4951462
15	95239.58	312399.91	9.9788175	10.4947109
14	95230.71	312087.22	9.9787770	10.4942760
13	95221.83	311775.09	9.9787365	10.4938414
12	95212.94	311463.53	9.9786960	10.4934072
11	95204.04	311152.54	9.9786554	10.4929733
10	95195.14	310842.10	9.9786148	10.4925398
9	95186.23	310532.23	9.9785741	10.4921067
8	95177.31	310222.91	9.9785334	10.4916739
7	95168.38	309914.16	9.9784927	10.4912414
6	95159.44	309605.96	9.9784519	10.4908093
5	95150.49	309298.31	9.9784111	10.4903776
4	95141.54	308991.22	9.9783702	10.4899461
3	95132.58	308684.68	9.9783293	10.4895151
2	95123.61	308378.69	9.9782883	10.4890844
1	95114.63	308073.25	9.9782474	10.4886540
0	95105.65	307768.35	9.9782063	10.4842240

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
0	30901.70	32491.97	9.4899824	9.5117760
1	30929.36	32524.13	9.4903710	9.5122057
2	30957.02	32556.30	9.4907592	9.5126351
3	30984.68	32588.48	9.4911471	9.5130641
4	31012.34	32620.66	9.4915345	9.5134927
5	31039.99	32652.85	9.4919216	9.5139210
6	31067.64	32685.04	9.4923083	9.5143490
7	31095.29	32717.25	9.4926946	9.5147766
8	31122.94	32749.44	9.4930806	9.5152039
9	31150.58	32781.65	9.4934661	9.5156309
10	31178.22	32813.87	9.4938513	9.5160575
11	31205.86	32846.10	9.4942361	9.5164838
12	31233.49	32878.33	9.4946205	9.5169097
13	31261.12	32910.56	9.4950046	9.5173353
14	31288.75	32942.80	9.4953883	9.5177606
15	31316.38	32975.05	9.4957716	9.5181855
16	31344.00	33007.31	9.4961545	9.5186101
17	31371.63	33039.57	9.4965370	9.5190344
18	31399.25	33071.84	9.4969192	9.5194583
19	31426.86	33104.11	9.4973010	9.5198819
20	31454.48	33136.39	9.4976824	9.5203052
21	31482.09	33168.68	9.4980635	9.5207282
22	31509.69	33200.97	9.4984442	9.5211508
23	31537.30	33233.27	9.4988245	9.5215730
24	31564.90	33265.57	9.4992045	9.5219950
25	31592.50	33297.88	9.4995840	9.5224166
26	31620.10	33330.20	9.4999633	9.5228379
27	31647.70	33362.52	9.5003421	9.5232589
28	31675.29	33394.85	9.5007206	9.5236795
29	31702.88	33427.19	9.5010987	9.5240999
30	31730.47	33459.53	9.5014764	9.5245199

71. Grad.

Min.	Sinus	Tang.	*Log Sin.*	*Log. Tang.*
60	95105.65	307768.35	9.9782063	10.4882240
59	95096.66	307464.00	9.9781653	10.4877943
58	95087.66	307160.20	9.9781241	10.4873649
57	95078.65	306856.93	9.9780830	10.4869359
56	95069.63	306554.21	9.9780418	10.4865073
55	95060.60	306252.03	9.9780006	10.4860790
54	95051.57	305950.38	9.9779593	10.4856510
53	95042.53	305649.28	9.9779180	10.4852234
52	95033.48	305348.70	9.9778766	10.4847961
51	95024.42	305048.66	9.9778353	10.4843691
50	95015.36	304749.15	9.9777938	10.4839425
49	95006.29	304450.18	9.9777523	10.4835162
48	94997.21	304151.73	9.9777108	10.4830903
47	94988.12	303853.81	9.9776693	10.4826647
46	94979.02	303556.41	9.9776277	10.4822394
45	94969.91	303259.54	9.9775860	10.4818145
44	94960.80	302963.20	9.9775444	10.4813899
43	94951.68	302667.37	9.9775026	10.4809656
42	94942.55	302372.07	9.9774609	10.4805417
41	94933.41	302077.28	9.9774191	10.4801181
40	94924.26	301783.01	9.9773772	10.4796948
39	94915.11	301489.26	9.9773354	10.4792718
38	94905.95	301196.02	9.9772934	10.4788492
37	94896.78	300903.30	9.9772515	10.4784270
36	94887.60	300611.09	9.9772095	10.4780050
35	94878.41	300319.39	9.9771654	10.4775834
34	94869.22	300028.20	9.9771253	10.4771621
33	94860.02	299737.51	9.9770832	10.4767411
32	94850.81	299447.34	9.9770410	10.4763205
31	94841.59	299157.66	9.9769988	10.4759001
30	94832.36	298868.50	9.9769566	10.4754801

16.Grad.

Min.	Sinus	Tang.	Log. Sin.	Log.Tang.
30	28401.53	29621.35	9.4533418	9.4716048
31	28429.42	29652.99	9.4537681	9.4720685
32	28457.31	29684.64	9.4541939	9.4725318
33	28485.20	29716.30	9.4546192	9.4729947
34	28513.08	29747.96	9.4550441	9.4734571
35	28540.96	29779.62	9.4554686	9.4739192
36	28568.84	29811.29	9.4558926	9.4743808
37	28596.71	29842.97	9.4563161	9.4748421
38	28624.58	29874.65	9.4567392	9.4753029
39	28652.45	29906.34	9.4571618	9.4757633
40	28680.32	29938.03	9.4575840	9.4762233
41	28708.19	29969.73	9.4580058	9.4766829
42	28736.05	30001.44	9.4584271	9.4771421
43	28763.91	30033.15	9.4588480	9.4776009
44	28791.77	30064.86	9.4592684	9.4780592
45	28819.63	30096.58	9.4596884	9.4785172
46	28847.48	30128.31	9.4601079	9.4789748
47	28875.33	30160.04	9.4605270	9.4794319
48	28903.18	30191.78	9.4609456	9.4798887
49	28931.03	30223.52	9.4613638	9.4803451
50	28958.87	30255.27	9.4617816	9.4808011
51	28986.71	30287.03	9.4621989	9.4812566
52	29014.55	30318.79	9.4626158	9.4817118
53	29042.39	30350.55	9.4630323	9.4821666
54	29070.22	30382.32	9.4634483	9.4826210
55	29098.05	30414.10	9.4638639	9.4830750
56	29125.88	30445.88	9.4642790	9.4835286
57	29153.71	30477.67	9.4646938	9.4839818
58	29181.53	30509.46	9.4651081	9.4844346
59	29209.35	30541.26	9.4655219	9.4848870
60	29237.17	30573.07	9.4659353	9.4853390

Min.	Sinus	Tang.	*Log.Sin.*	*Log. Tang.*
30	95881.97	337594.34	9.9817370	10.5283952
29	95873.70	337234.08	9.9816995	10.5279315
28	95865.43	336874.53	9.9816620	10.5274682
27	95857.15	336515.68	9.9816245	10.5270053
26	95848.86	336157.53	9.9815870	10.5265428
25	95840.56	335800.08	9.9815494	10.5260808
24	95832.25	335443.33	9.9815117	10.5256192
23	95823.94	335087.28	9.9814740	10.5251579
22	95815.62	334731.91	9.9814363	10.5246971
21	95807.29	334377.24	9.9813986	10.5242367
20	95798.95	334023.26	9.9813608	10.5237767
19	95790.60	333669.97	9.9813229	10.5233171
18	95782.25	333317.36	9.9812850	10.5228579
17	95773.89	332965.43	9.9812471	10.5223991
16	95765.52	332614.19	9.9812091	10.5219408
15	95757.14	332263.62	9.9811711	10.5214828
14	95748.75	331913.73	9.9811331	10.5210252
13	95740.35	331564.52	9.9810950	10.5205681
12	95731.95	331215.98	9.9810569	10.5201113
11	95723.54	330868.11	9.9810187	10.5196549
10	95715.12	330520.91	9.9809805	10.5191989
9	95706.69	330174.38	9.9809423	10.5187434
8	95698.25	329828.51	9.9809040	10.5182882
7	95689.81	329483.30	9.9808657	10.5178334
6	95681.36	329138.76	9.9808273	10.5173790
5	95672.90	328794.87	9.9807889	10.5169250
4	95664.43	328451.64	9.9807505	10.5164714
3	95655.95	328109.07	9.9807120	10.5160182
2	95647.47	327767.15	9.9806735	10.5155654
1	95638.98	327425.88	9.9806349	10.5151130
0	95630.48	327085.26	9.9805963	10.5146610

Min.	17. Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
0	29237.17	30573.07	9.4659353	9.4853390
1	29264.99	30604.88	9.4663483	9.4857907
2	29292.80	30636.69	9.4667609	9.4862419
3	29320.61	30668.51	9.4671730	9.4866928
4	29348.42	30700.34	9.4675848	9.4871433
5	29376.23	30732.18	9.4679960	9.4875933
6	29404.03	30764.02	9.4684069	9.4880430
7	29431.83	30795.86	9.4688173	9.4884924
8	29459.63	30827.71	9.4692273	9.4889415
9	29487.43	30859.57	9.4696369	9.4893898
10	29515.22	30891.43	9.4700461	9.4898380
11	29543.01	30923.30	9.4704548	9.4902858
12	29570.80	30955.17	9.4708631	9.4907332
13	29598.59	30987.05	9.4712710	9.4911802
14	29626.38	31018.93	9.4716785	9.4916269
15	29654.16	31050.82	9.4720856	9.4920731
16	29681.94	31082.72	9.4724922	9.4925190
17	29709.71	31114.62	9.4728985	9.4929646
18	29737.49	31146.53	9.4733043	9.4934097
19	29765.26	31178.44	9.4737097	9.4938545
20	29793.03	31210.36	9.4741146	9.4942988
21	29820.79	31242.29	9.4745192	9.4947429
22	29848.56	31274.22	9.4749234	9.4951865
23	29876.32	31306.16	9.4753271	9.4956298
24	29904.08	31338.10	9.4757304	9.4960727
25	29931.84	31370.05	9.4761334	9.4965152
26	29959.59	31402.00	9.4765359	9.4969574
27	29987.34	31433.96	9.4769380	9.4973991
28	30015.09	31465.93	9.4773396	9.4978406
29	30042.84	31497.90	9.4777409	9.4982816
30	30070.58	31529.88	9.4781418	9.4987223

Min.	72.Grad.			
	Sinus	Tang.	*Log.Sin.*	*Log.Tang.*
60	95630.48	327085.26	9.9805963	10.5146610
59	95621.97	326745.29	9.9805577	10.5142093
58	95613.45	326405.96	9.9805190	10.5137581
57	95604.92	326067.28	9.9804803	10.5133072
56	95596.39	325729.24	9.9804415	10.5128567
55	95587.85	325391.84	9.9804027	10.5124067
54	95579.30	325055.08	9.9803639	10.5119570
53	95570.74	324718.95	9.9803250	10.5115076
52	95562.17	324383.46	9.9802860	10.5110587
51	95553.60	324048.60	9.9802471	10.5106102
50	95545.02	323714.38	9.9802081	10.5101620
49	95536.43	323380.78	9.9801690	10.5097142
48	95527.83	323047.80	9.9801299	10.5092668
47	95519.22	322715.46	9.9800908	10.5088198
46	95510.61	322383.73	9.9800516	10.5083731
45	95501.99	322052.63	9.9800124	10.5079269
44	95493.36	321722.15	9.9799732	10.5074810
43	95484.72	321392.28	9.9799339	10.5070354
42	95476.07	321063.04	9.9798946	10.5065903
41	95467.42	320734.40	9.9798552	10.5061455
40	95458.76	320406.38	9.9798158	10.5057012
39	95450.09	320078.97	9.9797764	10.5052571
38	95441.41	319752.17	9.9797369	10.5048135
37	95432.72	319425.98	9.9796973	10.5043702
36	95424.03	319100.39	9.9796578	10.5039273
35	95415.33	318775.40	9.9796182	10.5034848
34	95406.62	318451.02	9.9795785	10.5030426
33	95397.90	318127.24	9.9795388	10.5026009
32	95389.17	317804.06	9.9794991	10.5021594
31	95380.43	317481.47	9.9794593	10.5017184
30	95371.69	317159.48	9.9794195	10.5012777

17. Grad.

Min.	Sinus	Taag.	Log. Sin.	Log. Tang.
30	30070.58	31529.88	9.4781418	9.4987223
31	30098.32	31561.86	9.4785423	9.4991626
32	30126.06	31593.85	9.4789423	9.4996026
33	30153.80	31625.85	9.4793420	9.5000422
34	30181.53	31657.85	9.4797412	9.5004814
35	30209.26	31689.86	9.4801401	9.5009203
36	30236.99	31721.87	9.4805385	9.5013588
37	30264.71	31753.89	9.4809366	9.5017969
38	30292.44	31785.91	9.4813342	9.5022347
39	30320.16	31817.94	9.4817315	9.5026721
40	30347.88	31849.98	9.4821283	9.5031092
41	30375.59	31882.02	9.4825248	9.5035459
42	30403.31	31914.07	9.4829208	9.5039822
43	30431.02	31946.13	9.4833165	9.5044182
44	30458.72	31978.19	9.4837117	9.5048538
45	30486.43	32010.25	9.4841066	9.5052891
46	30514.13	32042.32	9.4845010	9.5057240
47	30541.83	32074.40	9.4848951	9.5061586
48	30569.53	32106.49	9.4852888	9.5065928
49	30597.23	32138.58	9.4856820	9.5070267
50	30624.92	32170.67	9.4860749	9.5074602
51	30652.61	32202.77	9.4864674	9.5078933
52	30680.29	32234.88	9.4868595	9.5083261
53	30707.98	32267.00	9.4872512	9.5087586
54	30735.66	32299.12	9.4876426	9.5091907
55	30763.34	32331.25	9.4880335	9.5096224
56	30791.02	32363.38	9.4884240	9.5100539
57	30818.69	32395.52	9.4888142	9.5104849
58	30846.36	32427.66	9.4892040	9.5109156
59	30874.03	32459.81	9.4895934	9.5113460
60	30901.70	32491.97	9.4899824	9.5117760

Min.	72.Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	95371.69	317159.48	9.9794195	10.5012777
29	95362.94	316838.08	9.9793796	10.5008374
28	95354.18	316517.28	9.9793398	10.5003974
27	95345.41	316197.06	9.9792998	10.4999578
26	95336.64	315877.44	9.9792599	10.4995186
25	95327.86	315558.40	9.9792198	10.4990797
24	95319.07	315239.94	9.9791798	10.4986412
23	95310.27	314922.07	9.9791397	10.4982031
22	95301.46	314604.78	9.9790996	10.4977653
21	95292.64	314288.07	9.9790594	10.4973279
20	95283.82	313971.94	9.9790192	10.4968908
19	95274.99	313656.39	9.9789789	10.4964541
18	95266.15	313341.41	9.9789386	10.4960178
17	95257.30	313027.01	9.9788983	10.4955818
16	95248.44	312713.17	9.9788579	10.4951462
15	95239.58	312399.91	9.9788175	10.4947109
14	95230.71	312087.22	9.9787770	10.4942760
13	95221.83	311775.09	9.9787365	10.4938414
12	95212.94	311463.53	9.9786960	10.4934072
11	95204.04	311152.54	9.9786554	10.4929733
10	95195.14	310842.10	9.9786148	10.4925398
9	95186.23	310532.23	9.9785741	10.4921067
8	95177.31	310222.91	9.9785334	10.4916739
7	95168.38	309914.16	9.9784927	10.4912414
6	95159.44	309605.96	9.9784519	10.4908093
5	95150.49	309298.31	9.9784111	10.4903776
4	95141.54	308991.22	9.9783702	10.4899461
3	95132.58	308684.68	9.9783293	10.4895151
2	95123.61	308378.69	9.9782883	10.4890844
1	95114.63	308073.25	9.9782474	10.4886540
0	95105.65	307768.35	9.9782063	10.4842240

18. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
0	30901.70	32491.97	9.4899824	9.5117760
1	30929.36	32524.13	9.4903710	9.5122057
2	30957.02	32556.30	9.4907592	9.5126351
3	30984.68	32588.48	9.4911471	9.5130641
4	31012.34	32620.66	9.4915345	9.5134927
5	31039.99	32652.85	9.4919216	9.5139210
6	31067.64	32685.04	9.4923083	9.5143490
7	31095.29	32717.25	9.4926946	9.5147766
8	31122.94	32749.44	9.4930806	9.5152039
9	31150.58	32781.65	9.4934661	9.5156309
10	31178.22	32813.87	9.4938513	9.5160575
11	31205.86	32846.10	9.4942361	9.5164838
12	31233.49	32878.33	9.4946205	9.5169097
13	31261.12	32910.56	9.4950046	9.5173353
14	31288.75	32942.80	9.4953883	9.5177606
15	31316.38	32975.05	9.4957716	9.5181855
16	31344.00	33007.31	9.4961545	9.5186101
17	31371.63	33039.57	9.4965370	9.5190344
18	31399.25	33071.84	9.4969192	9.5194583
19	31426.86	33104.11	9.4973010	9.5198819
20	31454.48	33136.39	9.4976824	9.5203052
21	31482.09	33168.68	9.4980635	9.5207282
22	31509.69	33200.97	9.4984442	9.5211508
23	31537.30	33233.27	9.4988245	9.5215730
24	31564.90	33265.57	9.4992045	9.5219950
25	31592.50	33297.88	9.4995840	9.5224166
26	31620.10	33330.20	9.4999633	9.5228379
27	31647.70	33362.52	9.5003421	9.5232589
28	31675.29	33394.85	9.5007206	9.5236795
29	31702.88	33427.19	9.5010987	9.5240999
30	31730.47	33459.53	9.5014764	9.5245199

Min.	71. Grad.			
	Sinus	Tang.	*Log Sin.*	*Log. Tang.*
60	95105.65	307768.35	9.9782063	10.4882240
59	95096.66	307464.00	9.9781653	10.4877943
58	95087.66	307160.20	9.9781241	10.4873649
57	95078.65	306856.93	9.9780830	10.4869359
56	95069.63	306554.21	9.9780418	10.4865073
55	95060.60	306252.03	9.9780006	10.4860790
54	95051.57	305950.38	9.9779593	10.4856510
53	95042.53	305649.28	9.9779180	10.4852234
52	95033.48	305348.70	9.9778766	10.4847961
51	95024.42	305048.66	9.9778353	10.4843691
50	95015.36	304749.15	9.9777938	10.4839425
49	95006.29	304450.18	9.9777523	10.4835162
48	94997.21	304151.73	9.9777108	10.4830903
47	94988.12	303853.81	9.9776693	10.4826647
46	94979.02	303556.41	9.9776277	10.4822394
45	94969.91	303259.54	9.9775860	10.4818145
44	94960.80	302963.20	9.9775444	10.4813899
43	94951.68	302667.37	9.9775026	10.4809656
42	94942.55	302372.07	9.9774609	10.4805417
41	94933.41	302077.28	9.9774191	10.4801181
40	94924.26	301783.01	9.9773772	10.4796948
39	94915.11	301489.26	9.9773354	10.4792718
38	94905.95	301196.02	9.9772934	10.4788492
37	94896.78	300903.30	9.9772515	10.4784270
36	94887.60	300611.09	9.9772095	10.4780050
35	94878.41	300319.39	9.9771654	10.4775834
34	94869.22	300028.20	9.9771253	10.4771621
33	94860.02	299737.51	9.9770832	10.4767411
32	94850.81	299447.34	9.9770410	10.4763205
31	94841.59	299157.66	9.9769988	10.4759001
30	94832.36	298868.50	9.9769566	10.4754801

Min.	18.Grad.			
	Sinus	Tang.	*Log.Sin.*	*Log. Tang.*
30	31730.47	33459.53	9.5014764	9.5245199
31	31758.05	33491.88	9.5018538	9.5249395
32	31785.63	33524.24	9.5022308	9.5253589
33	31813.21	33556.60	9.5026075	9.5257779
34	31840.79	33588.97	9.5[illegible]9838	9.5261966
35	31868.36	33621.34	9.5033597	9.5266150
36	31895.93	33653.72	9.5037353	9.5270331
37	31923.50	33686.11	9.5041105	9.5274508
38	31951.06	33718.50	9.5044853	9.5278682
39	31978.63	33750.90	9.5048598	9.5282853
40	32006.19	33783.30	9.5052339	9.5287021
41	32033.74	33815.71	9.5056077	9.5291186
42	32061.30	33848.13	9.5059811	9.5295347
43	32088.85	33880.56	9.5063542	9.5299505
44	32116.40	33912.99	9.5067268	9.5303661
45	32143.95	33945.43	9.5070992	9.5307813
46	32171.49	33977.87	9.5074712	9.5311961
47	32199.03	34010.32	9.5078428	9.5316107
48	32226.57	34042.78	9.5082141	9.5320250
49	32254.10	34075.24	9.5085850	9.5[illegible]24389
50	32281.64	34107.71	9.5089556	9.5328526
51	32309.17	34140.19	9.5093258	9.5332659
52	32336.70	34172.67	9.5096956	9.5336789
53	32364.22	34205.16	9.5100651	9.5340916
54	32391.74	34237.65	9.5104343	9.[illegible]345040
55	32419.26	34270.15	9.5108031	9.5349161
56	32446.78	34302.66	9.5111716	9.5353278
57	32474.29	34335.18	9.5115397	9.5357393
58	32501.80	34367.70	9.5119074	9.5361505
59	32529.31	34400.23	9.5122749	9.536[illegible]613
60	32556.82	34432.76	9.5126419	9.5369719

71. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	94832.36	298868.50	9.9769566	10.4754801
29	94823.17	298579.83	9.9769143	10.4750605
28	94813.89	298291.66	9.9768720	10.4746411
27	94804.64	298004.00	9.9768296	10.4742221
26	94795.38	297716.83	9.9767872	10.4738034
25	94786.11	297430.16	9.9767447	10.4733850
24	94776.84	297143.99	9.9767022	10.4729669
23	94767.56	296858.31	9.9766597	10.4725492
22	94758.27	296573.12	9.9766171	10.4721318
21	94748.97	296288.42	9.9765745	10.4717147
20	94739.66	296004.22	9.9765318	10.4712979
19	94730.35	295720.50	9.9764891	10.4708814
18	94721.03	295437.27	9.9764464	10.4704653
17	94711.70	295154.53	9.9764036	10.4700495
16	94702.36	294872.27	9.9763608	10.4696339
15	94693.01	294590.50	9.9763179	10.4692187
14	94683.66	294309.21	9.9762750	10.4688039
13	94674.30	294028.40	9.9762321	10.4683893
12	94664.93	293748.07	9.9761891	10.4679750
11	94655.55	293468.22	9.9761461	10.4675611
10	94646.16	193188.85	9.9761030	10.4671474
9	94636.76	292909.95	9.9760599	10.4667341
8	94627.36	292631.52	9.9760167	10.4663211
7	94617.95	292353.58	9.9759736	10.4659084
6	94608.53	292076.10	9.9759303	10.4654960
5	94599.10	291799.09	9.9758870	10.4650839
4	94589.67	291522.56	9.9758437	10.4646722
3	94580.23	291246.49	9.9758004	10.4642607
2	94570.78	290970.89	9.9757570	10.4638495
1	94561.32	290695.76	9.9757135	10.4634387
0	94551.85	290421.09	9.9756701	10.4630281

19. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
0	32556.82	34432.76	9.5126419	9.5369718
1	32584.32	34465.30	9.5130086	9.5373821
2	32611.82	34497.85	9.5133750	9.5377920
3	32639.31	34530.40	9.5137410	9.5382017
4	32666.81	34562.96	9.5141067	9.5386110
5	32694.30	34595.53	9.5144721	9.5390200
6	32721.79	34628.10	9.5148371	9.5394287
7	32749.28	34660.68	9.5152017	9.5398371
8	32776.76	34693.27	9.5155660	9.5402453
9	32804.24	34725.86	9.5159300	9.5406531
10	32831.72	34758.46	9.5162936	9.5410606
11	32859.19	34791.07	9.5166569	9.5414678
12	32886.66	34823.68	9.5170198	9.5418747
13	32914.13	34856.30	9.5173824	9.5422813
14	32941.60	34888.93	9.5177447	9.5426877
15	32969.06	34921.56	9.5181066	9.5430937
16	32996.52	34954.20	9.5184682	9.5434994
17	33023.98	34986.85	9.5188295	9.5439048
18	33051.44	35019.50	9.5191904	9.5443100
19	33078.89	35052.16	9.5195510	9.5447148
20	33106.34	35084.83	9.5199112	9.5451193
21	33133.79	35117.50	9.5202711	9.5455236
22	33161.23	35150.18	9.5206307	9.5459276
23	33188.67	35182.87	9.5209899	9.5463312
24	33216.11	35215.56	9.5213488	9.5467346
25	33243.55	35248.26	9.5217074	9.5471377
26	33270.98	35280.97	9.5220656	9.5475405
27	33298.41	35313.68	9.5224235	9.5479430
28	33325.84	35346.40	9.5227811	9.5483452
29	33353.27	35379.13	9.5231383	9.5487471
30	33380.69	35411.86	9.5234953	9.5491487

Min.	70.Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
60	94551.85	290421.09	9.9756701	10.4630281
59	94542.38	290146.88	9.9756265	10.4626179
58	94532.90	289873.14	9.9755830	10.4622080
57	94523.41	289599.86	9.9755394	10.4617983
56	94513.91	289327.04	9.9754957	10.4613890
55	94504.40	289054.67	9.9754521	10.4609800
54	94494.89	288782.77	9.9754083	10.4605713
53	94485.37	288511.32	9.9753646	10.4601629
52	94475.84	288240.33	9.9753208	10.4597547
51	94466.30	287969.79	9.9752769	10.4593469
50	94456.75	287699.70	9.9752330	10.4589394
49	94447.20	287430.07	9.9751891	10.4585322
48	94437.64	287160.88	9.9751451	10.4581253
47	94428.07	286892.15	9.9751011	10.4577187
46	94418.49	286623.86	9.9750570	10.4573123
45	94408.90	286356.02	9.9750129	10.4569063
44	94399.31	286088.63	9.9749688	10.4565006
43	94389.71	285821.68	9.9749246	10.4560952
42	94380.10	285555.17	9.9748804	10.4556900
41	94370.48	285289.11	9.9748361	10.4552852
40	94360.85	285023.49	9.9747918	10.4548807
39	94351.21	284758.31	9.9747475	10.4544764
38	94341.57	284493.56	9.9747031	10.4540724
37	94331.92	284229.26	9.9746587	10.4536688
36	94322.26	283965.39	9.9746142	10.4532654
35	94312.60	283701.96	9.9745697	10.4528623
34	94302.93	283438.96	9.9745252	10.4524595
33	94293.25	283176.39	9.9744806	10.4520570
32	94283.56	282914.26	9.9744359	10.4516548
31	94273.86	282652.56	9.9743913	10.4512529
30	94264.15	282391.29	9.9743466	10.4508513

19. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	33380.69	35411.86	9.5234953	9.549148
31	33408.10	35444.60	9.5238518	9.5495500
32	33435.52	35477.35	9.5242081	9.5499511
33	33462.93	35510.10	9.5245640	9.5503519
34	33490.34	35542.86	9.5249196	9.5507523
35	33517.75	35575.63	9.5252749	9.5511525
36	33545.16	35608.40	9.5256298	9.5515524
37	33572.56	35641.18	9.5259844	9.5519521
38	33599.96	35673.97	9.5263387	9.5523514
39	33627.35	35706.76	9.5266927	9.5527504
40	33654.75	35739.56	9.5270463	9.5531492
41	33682.14	35772.37	9.5273997	9.5535477
42	33709.53	35805.18	9.5277526	9.5539459
43	33736.91	35838.00	9.5281053	9.5543438
44	33764.29	35870.83	9.5284577	9.5547415
45	33791.67	35903.67	9.5288097	9.5551388
46	33819.05	35936.51	9.5291614	9.5555359
47	33846.42	35969.36	9.5295128	9.5559327
48	33873.79	36002.22	9.5298638	9.5563292
49	33901.16	36035.08	9.5302146	9.5567255
50	33928.53	36067.95	9.5305650	9.5571214
51	33955.89	36100.83	9.5309151	9.5575171
52	33983.25	36133.71	9.5312649	9.5579125
53	34010.60	36166.60	9.5316143	9.5583077
54	34037.95	36199.50	9.5319635	9.5587025
55	34065.30	36232.40	9.5323123	9.5590971
56	34092.65	36265.31	9.5326608	9.5594914
57	34120.00	36298.23	9.5330090	9.5598854
58	34147.34	36331.15	9.5333569	9.5602792
59	34174.68	36364.08	9.5337044	9.5606727
60	34202.02	36397.02	9.5340517	9.5610659

70.Grad.

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	94264.15	282391.29	9.9743466	10.4508513
29	94254.43	282130.45	9.9743018	10.4504500
28	94244.71	281870.03	9.9742570	10.4500489
27	94234.98	281610.04	9.9742122	10.4496481
26	94225.24	281350.48	9.9741673	10.4492477
25	94215.50	281091.34	9.9741224	10.4488475
24	94205.75	280832.63	9.9740774	10.4484476
23	94195.99	280574.33	9.9740324	10.4480479
22	94186.22	280316.46	9.9739873	10.4476486
21	94176.44	280059.01	9.9739422	10.4472496
20	94166.65	279801.98	9.9738971	10.4468508
19	94156.85	279545.37	9.9738519	10.4464523
18	94147.05	279289.17	9.9738067	10.4460541
17	94137.24	279033.39	9.9737615	10.4456562
16	94127.42	278778.02	9.9737162	10.4452585
15	94117.60	278523.07	9.9736709	10.4448612
14	94107.77	278268.53	9.9736255	10.4444641
13	94097.93	278014.40	9.9735801	10.4440673
12	94088.08	277760.69	9.9735346	10.4436708
11	94078.22	277507.38	9.9734891	10.4432745
10	94068.35	277254.48	9.9734435	10.4428786
9	94058.48	277001.99	9.9733980	10.4424829
8	94048.60	276749.90	9.9733523	10.4420875
7	94038.71	276498.22	9.9733067	10.4416923
6	94028.81	276246.95	9.9732610	10.4412975
5	94018.90	275996.08	9.9732152	10.4409029
4	94008.99	275745.61	9.9731694	10.4405086
3	93999.07	275495.54	9.9731236	10.4401146
2	93989.14	275245.88	9.9730777	10.4397208
1	93979.20	274996.61	9.9730318	10.4393273
0	93969.2[illegible]	274747.74	9.9729858	10.4389341

20. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
0	34202.01	36397.02	9.5340517	9.5610658
1	34229.35	36429.97	9.5343986	9.5614588
2	34256.68	36462.92	9.5347452	9.5618515
3	34284.10	36495.88	9.5350915	9.5622439
4	34311.33	36528.85	9.5354375	9.5626360
5	34338.65	36561.82	9.5357832	9.5630278
6	34365.97	36594.80	9.5361286	9.5634194
7	34393.29	36627.79	9.5364737	9.5638107
8	34420.60	36660.79	9.5368184	9.5642018
9	34447.91	36693.79	9.5371628	9.5645925
10	34475.22	36726.80	9.5375069	9.5649831
11	34502.52	36759.82	9.5378508	9.5653733
12	34529.82	36792.84	9.5381943	9.5657633
13	34557.12	36825.87	9.5385375	9.5661530
14	34584.42	36858.91	9.5388804	9.5665424
15	34611.71	36891.95	9.5392230	9.5669316
16	34639.00	36925.00	9.5395653	9.5673205
17	34666.29	36958.06	9.5399073	9.5677091
18	34693.57	36991.13	9.5402489	9.5680975
19	34720.85	37024.20	9.5405903	9.5684856
20	34748.13	37057.28	9.5409314	9.5688735
21	34775.40	37090.37	9.5412721	9.5692611
22	34802.67	37123.46	9.5416126	9.5696484
23	34829.94	37156.56	9.5419527	9.5700355
24	34857.21	37189.67	9.5422926	9.5704223
25	34884.47	37222.78	9.5426321	9.5708088
26	34911.73	37255.90	9.5429713	9.5711951
27	34938.99	37289.03	9.5433103	9.5715811
28	34966.24	37322.17	9.5436489	9.5719669
29	34993.49	37355.32	9.5439873	9.5723524
30	35020.74	37388.47	9.5443253	9.5727377

Min.	Sinus	Tang.	Log. Sin:	Log. Tang.
60	93969.26	274747.74	9.9729858	10.4389341
59	93959.31	274499.27	9.9729398	10.4385412
58	93949.35	274251.20	9.9728938	10.4381485
57	93939.38	274003.52	9.9728477	10.4377561
56	93929.40	273756.23	9.9728016	10.4373640
55	93919.42	273509.34	9.9727554	10.4369722
54	93909.43	273262.84	9.9727092	10.4365806
53	93899.43	273016.74	9.9726629	10.4361893
52	93889.42	272771.02	9.9726166	10.4357982
51	93879.40	272525.69	9.9725703	10.4354075
50	93869.37	272280.75	9.9725239	10.4350169
49	93859.34	272036.20	9.9724775	10.4346267
48	93849.30	271792.04	9.9724310	10.4342367
47	93839.25	271548.26	9.9723845	10.4338470
46	93829.19	271304.87	9.9723380	10.4334576
45	93819.13	271061.86	9.9722914	10.4330684
44	93809.06	270819.23	9.9722448	10.4326795
43	93798.98	270576.99	9.9721981	10.4322909
42	93788.89	270335.13	9.9721514	10.4319025
41	93778.79	270093.64	9.9721047	10.4315144
40	93768.69	269852.54	9.9720579	10.4311265
39	93758.58	269611.81	9.9720110	10.4307389
38	93748.46	269371.47	9.9719642	10.4303516
37	93738.33	269131.49	9.9719172	10.4299645
36	93728.19	268891.90	9.9718703	10.4295777
35	93718.05	268652.67	9.9718233	10.4291912
34	93707.90	268413.83	9.9717762	10.4288049
33	93697.74	268175.35	9.9717291	10.4284189
32	93687.57	267937.25	9.9716820	10.4280331
31	93677.40	267699.51	9.9716348	10.4276476
30	93667.22	267462.15	9.9715867	10.4272623

20. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	35020.74	37388.47	9.5443253	9.5727377
31	35047.99	37421.63	9.5446630	9.5731227
32	35075.23	37454.79	9.5450005	9.5735074
33	35102.47	37487.97	9.5453376	9.5738919
34	35129.70	37521.15	9.5456745	9.5742761
35	35156.93	37554.34	9.5460110	9.5746601
36	35184.16	37587.53	9.5463472	9.5750438
37	35211.39	37620.73	9.5466832	9.5754272
38	35238.62	37653.94	9.5470189	9.5758104
39	35265.84	37687.16	9.5473542	9.5761934
40	35293.06	37720.38	9.5476893	9.5765761
41	35320.27	37753.61	9.5480240	9.5769585
42	35347.48	37786.85	9.5483585	9.5773407
43	35374.69	37820.10	9.5486927	9.5777226
44	35401.90	37853.35	9.5490266	9.5781043
45	35429.10	37886.61	9.5493602	9.5784858
46	35456.30	37919.88	9.5496935	9.5788669
47	35483.50	37953.16	9.5500265	9.5792479
48	35510.70	37986.44	9.5503592	9.5796286
49	35537.89	38019.73	9.5506916	9.5800090
50	35565.08	38053.03	9.5510237	9.5803892
51	35592.26	38086.33	9.5513556	9.5807691
52	35619.44	38119.64	9.5516871	9.5811488
53	35646.62	38152.96	9.5520184	9.5815282
54	35673.80	38186.29	9.5523494	9.5819074
55	35700.97	38219.62	9.5526801	9.5822864
56	35728.14	38252.96	9.5530105	9.5826651
57	35755.31	38286.31	9.5533406	9.5830435
58	35782.48	38319.67	9.5536704	9.5834217
59	35809.64	38353.03	9.5539999	9.5837997
60	35836.79	38386.40	9.5543292	9.5841774

Min.	69. Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	93667.22	267462.15	9.9715876	10.4272623
29	93657.03	267225.16	9.9715404	10.4268773
28	93646.83	266988.53	9.9714931	10.4264926
27	93636.62	266752.27	9.9714457	10.4261081
26	93626.40	266516.38	9.9713984	10.4257239
25	93616.18	266280.85	9.9713509	10.4253399
24	93605.95	266045.69	9.9713035	10.4249562
23	93595.71	265810.89	9.9712560	10.4245728
22	93585.46	265576.45	9.9712084	10.4241896
21	93575.21	265342.38	9.9711608	10.4238066
20	93564.95	265108.67	9.9711132	10.4234239
19	93554.68	264875.31	9.9710655	10.4230415
18	93544.40	264642.32	9.9710178	10.4226593
17	93534.11	264409.69	9.9709701	10.4222774
16	93523.82	264177.41	9.9709223	10.4218957
15	93513.52	263945.49	9.9708744	10.4215142
14	93503.21	263713.92	9.9708265	10.4211331
13	93492.89	263482.71	9.9707786	10.4207521
12	93482.56	263251.86	9.9707306	10.4203714
11	93472.23	263021.36	9.9706826	10.4199910
10	93461.89	262791.21	9.9706346	10.4196108
9	93451.54	262561.41	9.9705865	10.4192309
8	93441.18	262331.96	9.9705383	10.4188512
7	93430.82	262102.86	9.9704902	10.4184718
6	93420.45	261874.11	9.9704419	10.4180926
5	93410.07	261645.71	9.9703937	10.4177136
4	93399.68	261417.66	9.9703454	10.4173349
3	93389.28	261189.95	9.9702970	10.4169565
2	93378.87	260962.59	9.9702486	10.4165783
1	93368.46	260735.58	9.9702002	10.4162003
0	93358.04	260508.91	9.9701517	10.4158226

21. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
0	35836.79	38386.40	9.5543292	9.5841774
1	35863.95	38419.78	9.5546581	9.5845549
2	35891.10	38453.17	9.5549868	9.5849321
3	35918.25	38486.56	9.5553152	9.5853091
4	35945.40	38519.96	9.5556433	9.5856859
5	35972.54	38553.37	9.5559711	9.5860624
6	35999.68	38586.79	9.5562987	9.5864386
7	36026.82	38620.21	9.5566259	9.5868147
8	36053.95	38653.64	9.5569529	9.5871904
9	36081.80	38687.08	9.5572796	9.5875660
10	36108.21	38720.53	9.5576060	9.5879413
11	36135.33	38753.98	9.5579321	9.5883163
12	36162.46	38787.44	9.5582579	9.5886912
13	36189.58	38820.91	9.5585835	9.5890657
14	36216.69	38854.39	9.5589088	9.5894401
15	36243.80	38887.87	9.5592338	9.5898142
16	36270.91	38921.36	9.5595585	9.5901881
17	36298.02	38954.86	9.5598829	9.5905617
18	36325.12	38988.37	9.5602071	9.5909351
19	36352.22	39021.89	9.5605310	9.5913082
20	36379.32	39055.41	9.5608546	9.5916812
21	36406.41	39088.94	9.5611779	9.5920539
22	36433.50	39122.48	9.5615010	9.5924263
23	36460.59	39156.02	9.5618237	9.5927985
24	36487.68	39189.57	9.5621462	9.5931705
25	36514.76	39223.13	9.5624685	9.5935422
26	36541.84	39256.70	9.5627904	9.5939138
27	36568.92	39290.28	9.5631121	9.5942851
28	36595.99	39323.86	9.5634335	9.5946561
29	36623.06	39357.45	9.5637546	9.5950269
30	36650.13	39391.05	9.5640754	9.5953975

68.Grad.

Min.	Sinus	Tang.	*Log.Sin.*	*Log. Tang*
60	93358.04	260508.91	9.9701517	10.4158226
59	93347.61	260282.58	9.9701032	10.4154451
58	93337.17	260056.59	9.9700547	10.4150679
57	93326.73	259830.95	9.9700061	10.4146909
56	93316.28	259605.64	9.9699574	10.4143141
55	93305.82	259380.68	9.9699087	10.4139376
54	93295.35	259156.06	9.9698600	10.4135614
53	93284.87	258931.77	9.9698112	10.4131853
52	93274.39	258707.82	9.9697624	10.4128096
51	93263.90	258484.21	9.9697136	10.4124340
50	93253.40	258260.94	9.9696647	10.4120587
49	93242.89	258038.90	9.9696158	10.4116837
48	93232.38	257815.39	9.9695668	10.4113088
47	93221.86	257593.12	9.9695177	10.4109343
46	93211.33	257371.18	9.9694687	10.4105599
45	93200.79	257149.57	9.9694196	10.4101858
44	93190.24	256928.30	9.9693704	10.4098119
43	93179.68	256707.35	9.9693212	10.4094383
42	93169.12	256486.74	9.9692720	10.4090649
41	93158.55	256266.45	9.9692227	10.4086918
40	93147.97	256046.49	9.9691734	10.4083188
39	93137.38	255826.86	9.9691240	10.4079461
38	93126.79	255607.56	9.9690746	10.4075737
37	93116.19	255388.58	9.9690252	10.4072015
36	93105.58	255169.92	9.9689757	10.4068295
35	93094.96	254951.60	9.9689262	10.4064577
34	93084.33	254733.59	9.9688766	10.4060862
33	93073.70	254515.91	9.9688270	10.4057149
32	93063.06	254298.55	9.9687773	10.4053439
31	93052.41	254081.51	9.9687276	10.4049731
30	93041.75	253864.79	9.9686779	10.4046025

21. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	36650.13	39391.05	9.5640754	9.5953975
31	36677.19	39424.66	9.5643960	9.5957679
32	36704.25	39458.27	9.5647163	9.5961380
33	36731.31	39491.89	9.5650363	9.5965079
34	36758.36	39525.52	9.5653561	9.5968776
35	36785.41	39559.16	9.5656756	9.5972470
36	36812.46	39592.80	9.5659948	9.5976162
37	36839.50	39626.45	9.5663137	9.5979852
38	36866.54	39660.11	9.5666324	9.5983540
39	36893.58	39693.78	9.5669508	9.5987225
40	36920.62	39727.46	9.5672689	9.5990908
41	36947.65	39761.14	9.5675868	9.5994588
42	36974.68	39794.83	9.5679044	9.5998267
43	37001.70	39828.53	9.5682217	9.6001943
44	37028.72	39862.24	9.5685387	9.6005617
45	37055.74	39895.96	9.5688555	9.6009289
46	37082.76	39929.68	9.5691721	9.6012958
47	37109.77	39963.41	9.5694883	9.6016625
48	37136.78	39997.15	9.5698043	9.6020290
49	37163.79	40030.89	9.5701200	9.6023953
50	37190.80	40064.65	9.5704355	9.6027613
51	37217.80	40098.41	9.5707506	9.6031271
52	37244.80	40132.18	9.5710656	9.6034927
53	37271.79	40165.96	9.5713802	9.6038581
54	37298.78	40199.75	9.5716946	9.6042233
55	37325.77	40233.54	9.5720087	9.6045882
56	37352.75	40267.34	9.5723226	9.6049529
57	37379.73	40301.15	9.5726362	9.6053174
58	37406.71	40334.97	9.5729495	9.6056817
59	37433.69	40368.79	9.5732626	9.6060457
60	37460.66	40402.62	9.5735754	9.6064096

Min.	68.Grad.			
	Sinus	Tang.	*Log.Sin.*	*Log.Tang*
0	93041.75	253864.79	9.9686779	10.4046025
29	93031.09	253648.39	9.9686281	10.4042321
28	93020.42	253432.31	9.9685783	10.4038620
27	93009.74	253216.55	9.9685284	10.4034921
26	92999.05	253001.11	9.9684785	10.4031224
25	92988.35	252785.98	9.9684286	10.4027530
24	92977.65	252571.17	9.9683786	10.4023838
23	92966.94	252356.67	9.9683285	10.4020148
22	92956.22	252142.49	9.9682784	10.4016460
21	92945.49	251928.63	9.9682283	10.4012775
20	92934.75	251715.07	9.9681781	10.4009092
19	92924.01	251501.83	9.9681279	10.4005411
18	92913.26	251288.90	9.9680777	10.4001733
17	92902.50	251076.29	9.9680274	10.3998057
16	92891.73	250863.98	9.9679771	10.3994383
15	92880.95	250651.98	9.9679267	10.3990711
14	92870.17	250440.29	9.9678763	10.3987042
13	92859.38	250228.91	9.9678258	10.3983375
12	92848.58	250017.84	9.9677753	10.3979710
11	92837.77	249807.07	9.9677247	10.3976047
10	92826.96	249596.61	9.9676741	10.3972387
9	92816.14	249386.45	9.9676235	10.3968729
8	92805.31	249176.60	9.9675728	10.3965073
7	92794.47	248967.06	9.9675221	10.3961419
6	92783.62	248757.81	9.9674713	10.3957767
5	92772.77	248548.87	9.9674205	10.3954118
4	92761.91	248340.23	9.9673697	10.3950471
3	92751.04	248131.90	9.9673188	10.3946826
2	92740.16	247923.86	9.9672679	10.3943183
1	92729.28	247716.12	9.9672169	10.3939543
0	92718.39	247508.69	9.9671659	10.3935904

Min.	Sinus	Tang.	Log.Sin.	Log. Tang
	20.Grad.			
0	34202.02	36397.02	9.5340517	9.561065
1	34229.35	36429.97	9.5343986	9.561458
2	34256.68	36462.92	9.5347452	9.561851
3	34284.10	36495.88	9.5350915	9.562243
4	34311.33	36528.85	9.5354375	9.562636
5	34338.65	36561.82	9.5357832	9.563027
6	34365.97	36594.80	9.5361286	9.5634194
7	34393.29	36627.79	9.5364737	9.5638107
8	34420.60	36660.79	9.5368184	9.5642018
9	34447.91	36693.79	9.5371628	9.5645925
10	34475.22	36726.80	9.5375069	9.5649831
11	34502.52	36759.82	9.5378508	9.5653733
12	34529.82	36792.84	9.5381943	9.5657633
13	34557.12	36825.87	9.5385375	9.5661530
14	34584.42	36858.91	9.5388804	9.5665424
15	34611.71	36891.95	9.5392230	9.5669316
16	34639.00	36925.00	9.5395653	9.5673205
17	34666.29	36958.06	9.5399073	9.5677091
18	34693.57	36991.13	9.5402489	9.5680975
19	34720.85	37024.20	9.5405903	9.5684856
20	34748.13	37057.28	9.5409314	9.5688735
21	34775.40	37090.37	9.5412721	9.5692611
22	34802.67	37123.46	9.5416126	9.5696484
23	34829.94	37156.56	9.5419527	9.5700355
24	34857.21	37189.67	9.5422926	9.5704223
25	34884.47	37222.78	9.5426321	9.5708088
26	34911.73	37255.90	9.5429713	9.5711951
27	34938.99	37289.03	9.5433103	9.5715811
28	34966.24	37322.17	9.5436489	9.5719669
29	34993.49	37355.32	9.5439873	9.5723524
30	35020.74	37388.47	9.5443253	9.5727377

69. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
60	93969.26	274747.74	9.9729858	10.4389341
59	93959.31	274499.27	9.9729398	10.4385412
58	93949.35	274251.20	9.9728938	10.4381485
57	93939.38	274003.52	9.9728477	10.4377561
56	93929.40	273756.23	9.9728016	10.4373640
55	93919.42	273509.34	9.9727554	10.4369722
54	93909.43	273262.84	9.9727092	10.4365806
53	93899.43	273016.74	9.9726629	10.4361893
52	93889.42	272771.02	9.9726166	10.4357982
51	93879.40	272525.69	9.9725703	10.4354075
50	93869.37	272280.75	9.9725239	10.4350169
49	93859.34	272036.20	9.9724775	10.4346267
48	93849.30	271792.04	9.9724310	10.4342367
47	93839.25	271548.26	9.9723845	10.4338470
46	93829.19	271304.87	9.9723380	10.4334576
45	93819.13	271061.86	9.9722914	10.4330684
44	93809.06	270819.23	9.9722448	10.4326795
43	93798.98	270576.99	9.9721981	10.4322909
42	93788.89	270335.13	9.9721514	10.4319025
41	93778.79	270093.64	9.9721047	10.4315144
40	93768.69	269852.54	9.9720579	10.4311265
39	93758.58	269611.81	9.9720110	10.4307389
38	93748.46	269371.47	9.9719642	10.4303516
37	93738.33	269131.49	9.9719172	10.4299645
36	93728.19	268891.90	9.9718703	10.4295777
35	93718.05	268652.67	9.9718233	10.4291912
34	93707.90	268413.83	9.9717762	10.4288049
33	93697.74	268175.35	9.9717291	10.4284189
32	93687.57	267937.25	9.9716820	10.4280331
31	93677.40	267699.51	9.9716348	10.4276476
30	93667.22	267462.15	9.9715867	10.4272623

20. Grad.

	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	35020.74	37388.47	9.5443253	9.5727377
31	35047.99	37421.63	9.5446630	9.5731227
32	35075.23	37454.79	9.5450005	9.5735074
33	35102.47	37487.97	9.5453376	9.5738919
34	35129.70	37521.15	9.5456745	9.5742761
35	35156.93	37554.34	9.5460110	9.5746601
36	35184.16	37587.53	9.5463472	9.5750438
37	35211.39	37620.73	9.5466832	9.5754272
38	35238.62	37653.94	9.5470189	9.5758104
39	35265.84	37687.16	9.5473542	9.5761934
40	35293.06	37720.38	9.5476893	9.5765761
41	35320.27	37753.61	9.5480240	9.5769585
42	35347.48	37786.85	9.5483585	9.5773407
43	35374.69	37820.10	9.5486927	9.5777226
44	35401.90	37853.35	9.5490266	9.5781043
45	35429.10	37886.61	9.5493602	9.5784858
46	35456.30	37919.88	9.5496935	9.5788669
47	35483.50	37953.16	9.5500265	9.5792479
48	35510.70	37986.44	9.5503592	9.5796286
49	35537.89	38019.73	9.5506916	9.5800090
50	35565.08	38053.03	9.5510237	9.5803892
51	35592.26	38086.33	9.5513556	9.5807691
52	35619.44	38119.64	9.5516871	9.5811488
53	35646.62	38152.96	9.5520184	9.5815282
54	35673.80	38186.29	9.5523494	9.5819074
55	35700.97	38219.62	9.5526801	9.5822864
56	35728.14	38252.96	9.5530105	9.5826651
57	35755.31	38286.31	9.5533406	9.5830435
58	35782.48	38319.67	9.5536704	9.5834217
59	35809.64	38353.03	9.5539999	9.5837997
60	35836.79	38386.40	9.5543292	9.5841774

69. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	93667.22	267462.15	9.9715876	10.4272623
29	93657.03	267225.16	9.9715404	10.4268773
28	93646.83	266988.53	9.9714931	10.4264926
27	93636.62	266752.27	9.9714457	10.4261081
26	93626.40	266516.38	9.9713984	10.4257239
25	93616.18	266280.85	9.9713509	10.4253399
24	93605.95	266045.69	9.9713035	10.4249562
23	93595.71	265810.89	9.9712560	10.4245728
22	93585.46	265576.45	9.9712084	10.4241896
21	93575.21	265342.38	9.9711608	10.4238066
20	93564.95	265108.67	9.9711132	10.4234239
19	93554.68	264875.31	9.9710655	10.4230415
18	93544.40	264642.32	9.9710178	10.4226593
17	93534.11	264409.69	9.9709701	10.4222774
16	93523.82	264177.41	9.9709223	10.4218957
15	93513.52	263945.49	9.9708744	10.4215142
14	93503.21	263713.92	9.9708265	10.4211331
13	93492.89	263482.71	9.9707786	10.4207521
12	93482.56	263251.86	9.9707306	10.4203714
11	93472.23	263021.36	9.9706826	10.4199910
10	93461.89	262791.21	9.9706346	10.4196108
9	93451.54	262561.41	9.9705865	10.4192309
8	93441.18	262331.96	9.9705383	10.4188512
7	93430.82	262102.86	9.9704902	10.4184718
6	93420.45	261874.11	9.9704419	10.4180926
5	93410.07	261645.71	9.9703937	10.4177136
4	93399.68	261417.66	9.9703454	10.4173349
3	93389.28	261189.95	9.9702970	10.4169565
2	93378.87	260962.59	9.9702486	10.4165783
1	93368.46	260735.58	9.9702002	10.4162003
0	93358.04	260508.91	9.9701517	10.4158226

20. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	35020.74	37388.47	9.5443253	9.5727377
31	35047.99	37421.63	9.5446630	9.5731227
32	35075.23	37454.79	9.5450005	9.5735074
33	35102.47	37487.97	9.5453376	9.5738919
34	35129.70	37521.15	9.5456745	9.5742761
35	35156.93	37554.34	9.5460110	9.5746601
36	35184.16	37587.53	9.5463472	9.5750438
37	35211.39	37620.73	9.5466832	9.5754272
38	35238.62	37653.94	9.5470189	9.5758104
39	35265.84	37687.16	9.5473542	9.5761934
40	35293.06	37720.38	9.5476893	9.5765761
41	35320.27	37753.61	9.5480240	9.5769585
42	35347.48	37786.85	9.5483585	9.5773407
43	35374.69	37820.10	9.5486927	9.5777226
44	35401.90	37853.35	9.5490266	9.5781043
45	35429.10	37886.61	9.5493602	9.5784858
46	35456.30	37919.88	9.5496935	9.5788669
47	35483.50	37953.16	9.5500265	9.5792479
48	35510.70	37986.44	9.5503592	9.5796286
49	35537.89	38019.73	9.5506916	9.5800090
50	35565.08	38053.03	9.5510237	9.5803892
51	35592.26	38086.33	9.5513556	9.5807691
52	35619.44	38119.64	9.5516871	9.5811488
53	35646.62	38152.96	9.5520184	9.5815282
54	35673.80	38186.29	9.5523494	9.5819074
55	35700.97	38219.62	9.5526801	9.5822864
56	35728.14	38252.96	9.5530105	9.5826651
57	35755.31	38286.31	9.5533406	9.5830435
58	35782.48	38319.67	9.5536704	9.5834217
59	35809.64	38353.03	9.5539999	9.5837997
60	35836.79	38386.40	9.5543292	9.5841774

69. Grad.

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	93667.22	267462.15	9.9715876	10.4272623
29	93657.03	267225.16	9.9715404	10.4268773
28	93646.83	266988.53	9.9714931	10.4264926
27	93636.62	266752.27	9.9714457	10.4261081
26	93626.40	266516.38	9.9713984	10.4257239
25	93616.18	266280.85	9.9713509	10.4253399
24	93605.95	266045.69	9.9713035	10.4249562
23	93595.71	265810.89	9.9712560	10.4245728
22	93585.46	265576.45	9.9712084	10.4241896
21	93575.21	265342.38	9.9711608	10.4238066
20	93564.95	265108.67	9.9711132	10.4234239
19	93554.68	264875.31	9.9710655	10.4230415
18	93544.40	264642.32	9.9710178	10.4226593
17	93534.11	264409.69	9.9709701	10.4222774
16	93523.82	264177.41	9.9709223	10.4218957
15	93513.52	263945.49	9.9708744	10.4215142
14	93503.21	263713.92	9.9708265	10.4211331
13	93492.89	263482.71	9.9707786	10.4207521
12	93482.56	263251.86	9.9707306	10.4203714
11	93472.23	263021.36	9.9706826	10.4199910
10	93461.89	262791.21	9.9706346	10.4196108
9	93451.54	262561.41	9.9705865	10.4192309
8	93441.18	262331.96	9.9705383	10.4188512
7	93430.82	262102.86	9.9704902	10.4184718
6	93420.45	261874.11	9.9704419	10.4180926
5	93410.07	261645.71	9.9703937	10.4177136
4	93399.68	261417.66	9.9703454	10.4173349
3	93389.28	261189.95	9.9702970	10.4169565
2	93378.87	260962.59	9.9702486	10.4165783
1	93368.46	260735.58	9.9702002	10.4162003
0	93358.04	260508.91	9.9701517	10.4158226

21. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
0	35836.79	38386.40	9.5543292	9.5841774
1	35863.95	38419.78	9.5546581	9.5845549
2	35891.10	38453.17	9.5549868	9.5849321
3	35918.25	38486.56	9.5553152	9.5853091
4	35945.40	38519.96	9.5556433	9.5856859
5	35972.54	38553.37	9.5559711	9.5860624
6	35999.68	38586.79	9.5562987	9.5864386
7	36026.82	38620.21	9.5566259	9.5868147
8	36053.95	38653.64	9.5569529	9.5871904
9	36081.80	38687.08	9.5572796	9.5875660
10	36108.21	38720.53	9.5576060	9.5879413
11	36135.33	38753.98	9.5579321	9.5883163
12	36162.46	38787.44	9.5582579	9.5886912
13	36189.58	38820.91	9.5585835	9.5890657
14	36216.69	38854.39	9.5589088	9.5894401
15	36243.80	38887.87	9.5592338	9.5898142
16	36270.91	38921.36	9.5595585	9.5901881
17	36298.02	38954.86	9.5598829	9.5905617
18	36325.12	38988.37	9.5602071	9.5909351
19	36352.22	39021.89	9.5605310	9.5913082
20	36379.32	39055.41	9.5608546	9.5916812
21	36406.41	39088.94	9.5611779	9.5920539
22	36433.50	39122.48	9.5615010	9.5924263
23	36460.59	39156.02	9.5618237	9.5927985
24	36487.68	39189.57	9.5621462	9.5931705
25	36514.76	39223.13	9.5624685	9.5935422
26	36541.84	39256.70	9.5627904	9.5939138
27	36568.92	39290.28	9.5631121	9.5942851
28	36595.99	39323.86	9.5634335	9.5946561
29	36623.06	39357.45	9.5637546	9.5950269
30	36650.13	39391.05	9.5640754	9.5953975

68. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang
60	93358.04	260508.91	9.9701517	10.4158226
59	93347.61	260282.58	9.9701032	10.4154451
58	93337.17	260056.59	9.9700547	10.4150679
57	93326.73	259830.95	9.9700061	10.4146909
56	93316.28	259605.64	9.9699574	10.4143141
55	93305.82	259380.68	9.9699087	10.4139376
54	93295.35	259156.06	9.9698600	10.4135614
53	93284.87	258931.77	9.9698112	10.4131853
52	93274.39	258707.82	9.9697624	10.4128096
51	93263.90	258484.21	9.9697136	10.4124340
50	93253.40	258260.94	9.9696647	10.4120587
49	93242.89	258038.90	9.9696158	10.4116837
48	93232.38	257815.39	9.9695668	10.4113088
47	93221.86	257593.12	9.9695177	10.4109343
46	93211.33	257371.18	9.9694687	10.4105599
45	93200.79	257149.57	9.9694196	10.4101858
44	93190.24	256928.30	9.9693704	10.4098119
43	93179.68	256707.35	9.9693212	10.4094383
42	93169.12	256486.74	9.9692720	10.4090649
41	93158.55	256266.45	9.9692227	10.4086918
40	93147.97	256046.49	9.9691734	10.4083188
39	93137.38	255826.86	9.9691240	10.4079461
38	93126.79	255607.56	9.9690746	10.4075737
37	93116.19	255388.58	9.9690252	10.4072015
36	93105.58	255169.92	9.9689757	10.4068295
35	93094.96	254951.60	9.9689262	10.4064577
34	93084.33	254733.59	9.9688766	10.4060862
33	93073.70	254515.91	9.9688270	10.4057149
32	93063.06	254298.55	9.9687773	10.4053439
31	93052.41	254081.51	9.9687276	10.4049731
30	93041.75	253864.79	9.9686779	10.4046025

Min.	Sinus	Tang.	Log.Sin.	Log. Tang.
30	36650.13	39391.05	9.5640754	9.595397
31	36677.19	39424.66	9.5643960	9.595767
32	36704.25	39458.27	9.5647163	9.596138
33	36731.31	39491.89	9.5650363	9.596507
34	36758.36	39525.52	9.5653561	9.596877
35	36785.41	39559.16	9.5656756	9.597247
36	36812.46	39592.80	9.5659948	9.597616
37	36839.50	39626.45	9.5663137	9.597985
38	36866.54	39660.11	9.5666324	9.598354
39	36893.58	39693.78	9.5669508	9.598722
40	36920.62	39727.46	9.5672689	9.599090
41	36947.65	39761.14	9.5675868	9.599458
42	36974.68	39794.83	9.5679044	9.599826
43	37001.70	39828.53	9.5682217	9.6001943
44	37028.72	39862.24	9.5685387	9.6005617
45	37055.74	39895.96	9.5688555	9.6009289
46	37082.76	39929.68	9.5691721	9.6012958
47	37109.77	39963.41	9.5694883	9.6016625
48	37136.78	39997.15	9.5698043	9.6020290
49	37163.79	40030.89	9.5701200	9.6023953
50	37190.80	40064.65	9.5704355	9.6027613
51	37217.80	40098.41	9.5707506	9.6031271
52	37244.80	40132.18	9.5710656	9.6034927
53	37271.79	40165.96	9.5713802	9.6038581
54	37298.78	40199.75	9.5716946	9.6042233
55	37325.77	40233.54	9.5720087	9.6045882
56	37352.75	40267.34	9.5723226	9.6049529
57	37379.73	40301.15	9.5726362	9.6053174
58	37406.71	40334.97	9.5729495	9.6056817
59	37433.69	40368.79	9.5732626	9.6060457
60	37460.66	40402.62	9.5735754	9.6064096

Min.	68.Grad.			
	Sinus	Tang.	Log.Sin.	Log.Tang
0	93041.75	253864.79	9.9686779	10.4046025
29	93031.09	253648.39	9.9686281	10.4042321
28	93020.42	253432.31	9.9685783	10.4038620
27	93009.74	253216.55	9.9685284	10.4034921
26	92999.05	253001.11	9.9684785	10.4031224
25	92988.35	252785.98	9.9684286	10.4027530
24	92977.65	252571.17	9.9683786	10.4023838
23	92966.94	252356.67	9.9683285	10.4020148
22	92956.22	252142.49	9.9682784	10.4016460
21	92945.49	251928.63	9.9682283	10.4012775
20	92934.75	251715.07	9.9681781	10.4009092
19	92924.01	251501.83	9.9681279	10.4005411
18	92913.26	251288.90	9.9680777	10.4001733
17	92902.50	251076.29	9.9680274	10.3998057
16	92891.73	250863.98	9.9679771	10.3994383
15	92880.95	250651.98	9.9679267	10.3990711
14	92870.17	250440.29	9.9678763	10.3987042
13	92859.38	250228.91	9.9678258	10.3983375
12	92848.58	250017.84	9.9677753	10.3979710
11	92837.77	249807.07	9.9677247	10.3976047
10	92826.96	249596.61	9.9676741	10.3972387
9	92816.14	249386.45	9.9676235	10.3968729
8	92805.31	249176.60	9.9675728	10.3965073
7	92794.47	248967.06	9.9675221	10.3961419
6	92783.62	248757.81	9.9674713	10.3957767
5	92772.77	248548.87	9.9674205	10.3954118
4	92761.91	248340.23	9.9673697	10.3950471
3	92751.04	248131.90	9.9673188	10.3946826
2	92740.16	247923.86	9.9672679	10.3943183
1	92729.28	247716.12	9.9672169	10.3939543
0	92718.39	247508.69	9.9671659	10.3935904

Min.	22. Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
0	37460.66	40402.62	9.5735754	9.6064096
1	37487.63	40436.46	9.5738880	9.606773
2	37514.59	40470.31	9.5742003	9.6071366
3	37541.56	40504.17	9.5745123	9.6074997
4	37568.52	40538.04	9.5748240	9.6078627
5	37595.47	40571.91	9.5751356	9.6082254
6	37622.43	40605.79	9.5754468	9.6085880
7	37649.38	40639.68	9.5757578	9.6089503
8	37676.32	40673.58	9.5760685	9.6093124
9	37703.27	40707.48	9.5763790	9.6096742
10	37730.21	40741.39	9.5766892	9.6100359
11	37757.14	40775.31	9.5769991	9.6103973
12	37784.08	40809.24	9.5773088	9.6107586
13	37811.01	40843.18	9.5776183	9.6111196
14	37837.94	40877.13	9.5779275	9.6114804
15	37864.86	40911.08	9.5782364	9.6118409
16	37891.78	40945.04	9.5785450	9.6122013
17	37918.70	40979.01	9.5788535	9.6125615
18	37945.62	41012.99	9.5791616	9.6129214
19	37972.53	41046.97	9.5794695	9.6132812
20	37999.44	41080.97	9.5797772	9.6136407
21	38026.34	41114.97	9.5800845	9.6140000
22	38053.24	41148.98	9.5803917	9.6143591
23	38080.14	41183.00	9.5806986	9.6147180
24	38107.04	41217.03	9.5810052	9.6150760
25	38133.93	41251.06	9.5813116	9.6154351
26	38160.82	41285.10	9.5816177	9.6157934
27	38187.70	41319.15	9.5819236	9.6161514
28	38214.59	41353.21	9.5822292	9.6165093
29	38241.47	41387.28	9.5825345	9.6168669
30	38268.34	41421.36	9.5828397	9.6172243

67. Grad.

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
60	92718.39	247508.69	9.9671659	10.3935904
59	92707.49	247301.55	9.9671148	10.3932268
58	92696.58	247094.70	9.9670637	10.3928634
57	92685.66	246888.16	9.9670125	10.3925003
56	92674.73	246681.91	9.9669614	10.3921373
55	92663.80	246475.96	9.9669101	10.3917746
54	92652.86	246270.30	9.9668588	10.3914120
53	92641.91	246064.94	9.9668075	10.3910497
52	92630.96	245859.87	9.9667562	10.3906876
51	92620.00	245655.09	9.9667048	10.3903258
50	92609.03	245450.61	9.9666533	10.3899641
49	92598.05	245246.42	9.9666018	10.3896027
48	92587.06	245042.52	9.9665503	10.3892414
47	92576.06	244838.91	9.9664987	10.3888804
46	92565.06	244635.59	9.9664471	10.3885196
45	92554.05	244432.56	9.9663954	10.3881591
44	92543.03	244229.82	9.9663437	10.3877987
43	92532.00	244027.36	9.9662920	10.3874385
42	92520.97	243825.19	9.9662402	10.3870786
41	92509.93	243623.31	9.9661884	10.3867188
40	92498.88	243421.72	9.9661365	10.3863593
39	92487.82	243220.41	9.9660846	10.3860000
38	92476.75	243019.38	9.9660326	10.3856409
37	92465.68	242818.64	9.9659806	10.3852820
36	92454.60	242618.19	9.9659285	10.3849234
35	92443.51	242418.01	9.9658764	10.3845649
34	92432.41	242218.12	9.9658243	10.3842066
33	92421.31	242018.51	9.9657721	10.3838486
32	92410.20	241819.18	9.9657199	10.3834907
31	92399.08	241620.13	9.9656677	10.3831331
30	92387.95	241421.36	9.9656153	10.3827757

22. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	38268.34	41421.36	9.5828397	9.617224
31	38295.22	41455.44	9.5831445	9.617581
32	38322.09	41489.53	9.5834491	9.617938
33	38348.95	41523.63	9.5837535	9.618295
34	38375.82	41557.74	9.5840576	9.618651
35	38402.68	41591.86	9.5843615	9.619008
36	38429.53	41625.99	9.5846651	9.619364
37	38456.39	41660.12	9.5849685	9.619720
38	38483.24	41694.26	9.5852716	9.620076
39	38510.08	41728.41	9.5855745	9.620431
40	38536.93	41762.57	9.5858771	9.620787
41	38563.77	41796.74	9.5861795	9.6211423
42	38590.60	41830.91	9.5864816	9.6214973
43	38617.44	41865.09	9.5867835	9.6218520
44	38644.27	41899.28	9.5870851	9.6222066
45	38671.10	41933.48	9.5873865	9.6225609
46	38697.92	41967.69	9.5876876	9.6229150
47	38724.74	42001.91	9.5879885	9.6232690
48	38751.56	42036.13	9.5882892	9.6236227
49	38778.37	42070.36	9.5885896	9.6239763
50	38805.18	42104.60	9.5888897	9.6243296
51	38831.99	42138.85	9.5891897	9.6246827
52	38858.80	42173.11	9.5894893	9.6250356
53	38885.60	42207.38	9.5897888	9.6253884
54	38912.39	42241.66	9.5900880	9.6257409
55	38939.19	42275.94	9.5903869	9.6260932
56	38965.98	42310.23	9.5906856	9.6264454
57	38992.77	42344.53	9.5909841	9.6267973
58	39019.55	42378.84	9.5912823	9.6271491
59	39046.33	42413.16	9.5915803	9.6275006
60	39073.11	42447.49	9.5918780	9.6278519

67. Grad.

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	92387.95	241421.36	9.9656153	10.3827757
29	92376.81	241222.86	9.9655630	10.3824185
28	92365.67	241024.65	9.9655106	10.3820615
27	92354.52	240826.72	9.9654582	10.3817047
26	92343.36	240629.06	9.9654057	10.3813481
25	92332.19	240431.68	9.9653532	10.3809917
24	92321.02	240234.57	9.9653006	10.3806355
23	92309.84	240037.74	9.9652480	10.3802795
22	92298.65	239841.18	9.9651953	10.3799238
21	92287.45	239644.90	9.9651426	10.3795682
20	92276.24	239448.89	9.9650899	10.3792128
19	92265.03	239253.16	9.9650371	10.3788577
18	92253.81	239057.69	9.9649843	10.3785027
17	92242.58	238862.50	9.9649314	10.3781480
16	92231.34	238667.58	9.9648785	10.3777934
15	92220.09	238472.93	9.9648256	10.3774391
14	92208.84	238278.55	9.9647726	10.3770850
13	92197.58	238084.44	9.9647195	10.3767310
12	92186.31	237890.60	9.9646665	10.3763773
11	92175.03	237697.03	9.9646133	10.3760237
10	92163.75	237503.72	9.9645602	10.3756704
9	92152.46	237310.68	9.9645069	10.3753173
8	92141.16	237117.91	9.9644537	10.3749644
7	92129.85	236925.40	9.9644004	10.3746116
6	92118.54	236733.16	9.9643470	10.3742591
5	92107.22	236541.18	9.9642937	10.3739068
4	92095.89	236349.46	9.9642402	10.3735546
3	92084.55	236158.01	9.9641868	10.3732027
2	92073.20	235966.83	9.9641332	10.3728509
1	92061.85	235775.90	9.9640797	10.3724994
0	92050.49	235585.24	9.9640261	10.3721481

Min.	Sinus	Tang.	Log.Sin.	Log.Tang.
0	39073.11	42447.49	9.5918780	9.6278519
1	39099.89	42481.82	9.5921755	9.6282031
2	39126.66	42516.16	9.5924728	9.6285540
3	39153.43	42550.51	9.5927698	9.6289048
4	39180.19	42584.87	9.5930666	9.6292553
5	39206.95	42619.24	9.5933631	9.6296057
6	39233.71	42653.62	9.5936594	9.6299558
7	39260.47	42688.00	9.5939555	9.6303058
8	39287.22	42722.39	9.5942513	9.6306556
9	39313.97	42756.79	9.5945469	9.6310052
10	39340.71	42791.20	9.5948422	9.6313545
11	39367.45	42825.62	9.5951373	9.6317037
12	39394.19	42860.05	9.5954322	9.6320527
13	39420.93	42894.49	9.5957268	9.6324015
14	39447.66	42928.94	9.5960212	9.6327501
15	39474.39	42963.39	9.5963154	9.6330985
16	39501.11	42997.85	9.5966093	9.6334468
17	39527.83	43032.32	9.5969030	9.6337948
18	39554.55	43066.80	9.5971965	9.6341426
19	39581.27	43101.29	9.5974897	9.6344903
20	39607.98	43135.79	9.5977827	9.6348378
21	39634.69	43170.30	9.5980754	9.6351850
22	39661.39	43204.81	9.5983679	9.6355321
23	39688.09	43239.33	9.5986602	9.6358790
24	39714.79	43273.86	9.5989523	9.6362257
25	39741.48	43308.40	9.5992441	9.6365722
26	39768.17	43342.95	9.5995357	9.6369185
27	39794.86	43377.51	9.5998271	9.6372646
28	39821.55	43412.08	9.6001181	9.6376106
29	39848.23	43446.66	9.6004090	9.6379563
30	39874.91	43481.24	9.6006997	9.6383019

Min.	66.Grad.			
	Sinus	Tang.	*Log.Sin.*	*Log. Tang.*
60	92050.49	235585.24	9.9640261	10.3721481
59	92039.12	235394.83	9.9639724	10.3717969
58	92027.74	235204.69	9.9639187	10.3714460
57	92016.35	235014.81	9.9638650	10.3710952
56	92004.96	234825.19	9.9638112	10.3707447
55	91993.56	234635.82	9.9637574	10.3703943
54	91982.15	234446.72	9.9637036	10.3700442
53	91970.73	234257.87	9.9636496	10.3696942
52	91959.31	234069.28	9.9635957	10.3693444
51	91947.88	233880.95	9.9635417	10.3689948
50	91936.44	233692.87	9.9634877	10.3686455
49	91924.99	233505.05	9.9634336	10.3682963
48	91913.53	233317.48	9.9633795	10.3679473
47	91902.07	233130.17	9.9633253	10.3675985
46	91890.60	232943.11	9.9632711	10.3672499
45	91879.12	232756.30	9.9632168	10.3669015
44	91867.63	232569.75	9.9631625	10.3665532
43	91856.14	232383.45	9.9631082	10.3662052
42	91844.64	232197.40	9.9630538	10.3658574
41	91833.13	232011.60	9.9629994	10.3655097
40	91821.61	231826.06	9.9629449	10.3651622
39	91810.08	231640.76	9.9628904	10.3648150
38	91798.55	231455.71	9.9628358	10.3644679
37	91787.01	231270.91	9.9627812	10.3641210
36	91775.46	231086.36	9.9627266	10.3637743
35	91763.90	230902.06	9.9626719	10.3634278
34	91752.34	230718.01	9.9626172	10.3630815
33	91740.77	230534.20	9.9625624	10.3627354
32	91729.19	230350.64	9.9625076	10.3623894
31	91717.60	230167.32	9.9624527	10.3620437
30	91706.01	229984.25	9.9623978	10.3616981

23. Grad.

Min.	Sinus	Tang	Log. Sin.	Log. Tang
30	39874.91	43481.24	9.6006997	9.638301[illegible]
31	39901.58	43515.83	9.6009901	9.638647[illegible]
32	39928.25	43550.43	9.6012803	9.638992[illegible]
33	39954.92	43585.04	9.6015703	9.639337[illegible]
34	39981.58	43619.66	9.6018600	9.639682[illegible]
35	40008.24	43654.29	9.6021495	9.640026[illegible]
36	40034.90	43688.93	9.6024388	9.6403714
37	40061.56	43723.58	9.6027278	9.640715[illegible]
38	40088.21	43758.23	9.6030166	9.6410597
39	40114.86	43792.89	9.6033052	9.6414036
40	40141.50	43827.56	9.6035936	9.6417473
41	40168.14	43862.24	9.6038817	9.6420908
42	40194.78	43896.93	9.6041696	9.6424342
43	40221.41	43931.63	9.6044573	9.6427773
44	40248.04	43966.34	9.6047448	9.6431203
45	40274.67	44001.06	9.6050320	9.6434631
46	40301.29	44035.78	9.6053190	9.6438057
47	40327.91	44070.51	9.6056057	9.6441481
48	40354.53	44105.25	9.6058923	9.6444903
49	40381.14	44140.00	9.6061786	9.6448324
50	40407.75	44174.76	9.6064647	9.6451743
51	40434.36	44209.53	9.6067506	9.6455160
52	40460.96	44244.31	9.6070362	9.6458575
53	40487.56	44279.10	9.6073216	9.6461988
54	40514.16	44313.90	9.6076068	9.6465400
55	40540.75	44348.71	9.6078918	9.6468810
56	40567.34	44383.53	9.6081765	9.6472217
57	40593.93	44418.35	9.6084611	9.6475624
58	40620.51	44453.18	.6087454	9.6479028
59	40647.09	44488.02	9.6090294	9.6482431
60	40673.66	44522.87	9.6093133	9.6485831

Min.	66. Gard.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	91706.01	229984.25	9.9623978	10.3616981
29	91694.41	229801.43	9.9623428	10.3613527
28	91682.80	229618.85	9.9622878	10.3610075
27	91671.18	229436.51	9.9622328	10.3606625
26	91659.55	229254.42	9.9621777	10.3603177
25	91647.91	229072.57	9.9621226	10.3599731
24	91636.27	228890.96	9.9620674	10.3596286
23	91624.62	228709.59	9.9620122	10.3592844
22	91612.96	228528.46	9.9619569	10.3589403
21	91601.30	228347.58	9.9619016	10.3585964
20	91589.63	228166.93	9.9618463	10.3582527
19	91577.95	227986.53	9.9617909	10.3579092
18	91566.26	227806.36	9.9617355	10.3575658
17	91554.56	227626.43	9.9616800	10.3572227
16	91542.86	227446.74	9.9616245	10.3568797
15	91531.15	227267.29	9.9615689	10.3565369
14	91519.43	227088.07	9.9615133	10.3561943
13	91507.70	226909.09	9.9614576	10.3558519
12	91495.96	226730.35	9.9614020	10.3555097
11	91484.22	226551.84	9.9613463	10.3551676
10	91472.47	226373.57	9.9612904	10.3548257
9	91460.71	226195.53	9.9612346	10.3544840
8	91448.95	226017.73	9.9611787	10.3541425
7	91437.18	225840.16	9.9611228	10.3538012
6	91425.40	225662.83	9.9610668	10.3534600
5	91413.61	225485.72	9.9610108	10.3531190
4	91401.81	225308.85	9.9609548	10.3527783
3	91390.00	225132.21	9.9608987	10.3524376
2	91378.19	224955.80	9.9608426	10.3520972
1	91366.37	224779.62	9.9607864	10.3517569
0	91354.54	224603.68	9.9607302	10.3514167

24. Grad.

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
0	40673.66	44522.87	9.6093133	9.648583
1	40700.23	44557.73	9.6095969	9.648923
2	40726.80	44592.60	9.6098803	9.649262
3	40753.37	44627.48	9.6101635	9.649602
4	40779.93	44662.37	9.6104465	9.649941
5	40806.49	44697.27	9.6107293	9.650280
6	40833.05	44732.17	9.6110118	9.650619
7	40859.60	44767.08	9.6112941	9.6509587
8	40886.15	44802.00	9.6115762	9.6512974
9	40912.69	44836.93	9.6118580	9.6516359
10	40939.23	44871.87	9.6121397	9.6519742
11	40965.77	44906.82	9.6124211	9.6523123
12	40992.30	44941.78	9.6127023	9.6526503
13	41018.83	44976.75	9.6129833	9.6529881
14	41045.36	45011.73	9.6132641	9.6533257
15	41071.89	45046.72	9.6135446	9.6536631
16	41098.41	45081.72	9.6138250	9.6540004
17	41124.93	45116.73	9.6141051	9.6543375
18	41151.44	45151.74	9.6143850	9.6546744
19	41177.95	45186.76	9.6146647	9.6550112
20	41204.46	45221.79	9.6149441	9.6553477
21	41230.96	45256.83	9.6152234	9.6556841
22	41257.46	45291.88	9.6155024	9.6560204
23	41283.95	45326.94	9.6157812	9.6563564
24	41310.44	45362.01	9.6160598	9.656692
25	41336.93	45397.09	9.6163382	9.657028
26	41363.42	45432.18	9.6166164	9.657363
27	41389.90	45467.28	9.6168944	9.657698
28	41416.38	45502.39	9.6171721	9.658034
29	41442.85	45537.51	9.6174496	9.658369
30	41469.32	45572.64	9.6177270	9.658704

65. Grad.

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
60	91354.54	224603.68	9.9607302	10.3514169
59	91342.71	224427.96	9.9606739	10.3510770
58	91330.87	224252.47	9.9606176	10.3507372
57	91319.02	224077.21	9.9605612	10.3503977
56	91307.16	223902.18	9.9605048	10.3500583
55	91295.29	223727.38	9.9604484	10.3497191
54	91283.42	223552.80	9.9603919	10.3493801
53	91271.54	223378.45	9.9603354	10.3490413
52	91259.65	223204.33	9.9602788	10.3487026
51	91247.75	223030.43	9.9602222	10.3483641
50	91235.84	222856.76	9.9601655	10.3480258
49	91223.93	222683.31	9.9601088	10.3476877
48	91212.01	222510.09	9.9600520	10.3473497
47	91200.08	222337.09	9.9599952	10.3470119
46	91188.14	222164.32	9.9599384	10.3466743
45	91176.20	221991.77	9.9598815	10.3463369
44	91164.25	221819.44	9.9598246	10.3459996
43	91152.29	221647.33	9.9597676	10.3456625
42	91140.32	221475.45	9.9597106	10.3453256
41	91128.35	221303.79	9.9596535	10.3449888
40	91116.37	221132.34	9.9595964	10.3446523
39	91104.38	220961.12	9.9595393	10.3443159
38	91092.38	220790.12	9.9594821	10.3439796
37	91080.38	220619.34	9.9594248	10.3436436
36	91068.37	220448.78	9.9593675	10.3433077
35	91056.35	220278.43	9.9593102	10.3429720
34	91044.32	220108.31	9.9592528	10.3426364
33	91032.28	219938.40	9.9591954	10.3423011
32	91020.24	219768.71	9.9591380	10.3419659
31	91008.19	219599.23	9.9590805	10.3416308
30	90996.13	219429.97	9.9590229	10.3412960

24. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	41469.32	45572.64	9.6177270	9.6587041
31	41495.79	45607.77	9.6180041	9.6590387
32	41522.26	45642.91	9.6182809	9.6593733
33	41548.72	45678.06	9.6185576	9.6597076
34	41575.18	45713.22	9.6188341	9.6600418
35	41601.63	45748.39	9.6191103	9.6603758
36	41628.08	45783.57	9.6193864	9.6607097
37	41654.53	45818.76	9.6196622	9.6610434
38	41680.97	45853.96	9.6199378	9.6613769
39	41707.41	45889.17	9.6202132	9.6617103
40	41733.85	45924.39	9.6204884	9.6620434
41	41760.28	45959.62	9.6207634	9.6623765
42	41786.71	45994.86	9.6210382	9.6627093
43	41813.13	46030.11	9.6213127	9.6630420
44	41839.55	46065.37	9.6215871	9.6633745
45	41865.97	46100.64	9.6218612	9.6637069
46	41892.39	46135.91	9.6221351	9.6640391
47	41918.80	46171.19	9.6224088	9.6643711
48	41945.21	46206.48	9.6226824	9.6647030
49	41971.61	46241.78	9.6229557	9.6650346
50	41998.01	46277.09	9.6232287	9.6653662
51	42024.41	46312.42	9.6235016	9.6656975
52	42050.80	46347.76	9.6237743	9.6660288
53	42077.19	46383.11	9.6240467	9.6663598
54	42103.58	46418.46	9.6243190	9.6666907
55	42129.96	46453.82	9.6245911	9.6670214
56	42156.34	46489.19	9.6248629	9.6673519
57	42182.72	46524.57	9.6251346	9.6676823
58	42209.09	46559.96	9.6254060	9.6680126
59	42235.46	46595.36	9.6256772	9.6683426
60	42261.83	46630.77	9.6259483	9.6686725

Min.	65.Grad.			
	Sinus	Tang.	*Log.Sin.*	*Log.Tang.*
30	90996.13	219429.97	9.9590229	10.3412960
29	90984.06	219260.93	9.9589653	10.3409613
28	90971.98	219092.10	9.9589077	10.3406267
27	90959.90	218923.49	9.9588500	10.3402924
26	90947.81	218755.10	9.9587923	10.3399582
25	90935.71	218586.91	9.9587345	10.3396242
24	90923.61	218418.94	9.9586767	10.3392903
23	90911.50	218251.19	9.9586188	10.3389566
22	90899.38	218083.64	9.9585609	10.3386231
21	90887.25	217916.31	9.9585030	10.3382897
20	90875.11	217749.20	9.9584450	10.3379566
19	90862.97	217582.29	9.9583869	10.3376235
18	90850.82	217415.59	9.9583288	10.3372907
17	90838.66	217249.11	9.9582707	10.3369580
16	90826.49	217082.83	9.9582125	10.3366255
15	90814.32	216916.77	9.9581543	10.3362931
14	90802.14	216750.91	9.9580961	10.3359609
13	90789.95	216585.27	9.9580378	10.3356289
12	90777.75	216419.83	9.9579794	10.3352970
11	90765.54	216254.60	9.9579210	10.3349654
10	90753.33	216089.58	9.9578626	10.3346338
9	90741.11	215924.76	9.9578041	10.3343025
8	90728.88	215760.15	9.9577456	10.3339712
7	90716.64	215595.75	9.9576870	10.3336402
6	90704.40	215431.56	9.9576284	10.3333093
5	90692.15	215267.57	9.9575697	10.3329786
4	90679.89	215103.78	9.9575110	10.3326481
3	90667.62	214940.20	9.9574522	10.3323177
2	90655.35	214776.83	9.9573934	10.3319874
1	90643.07	214613.66	9.9573346	10.3316574
0	90630.78	214450.69	9.9572757	10.3313275

25.Grad.

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
0	42261.83	46630.77	9.6259483	9.6686725
1	42288.19	46666.19	9.6262191	9.6690023
2	42314.55	46701.62	9.6264897	9.6693319
3	42340.90	46737.06	9.6267601	9.6696613
4	42367.25	46772.51	9.6270303	9.6699906
5	42393.60	46807.97	9.6273003	9.6703197
6	42419.94	46843.43	9.6275701	9.6706486
7	42446.28	46878.90	9.6278397	9.6709774
8	42472.62	46914.38	9.6281090	9.6713060
9	42498.95	46949.88	9.6283782	9.6716345
10	42525.28	46985.39	9.6286472	9.6719628
11	42551.61	47020.90	9.6289160	9.6722910
12	42577.93	47056.43	9.6291845	9.6726190
13	42604.25	47091.96	9.6294529	9.6729468
14	42630.56	47127.51	9.6297211	9.6732745
15	42656.87	47163.06	9.6299890	9.6726020
16	42683.18	47198.63	9.6302568	9.6739294
17	42709.49	47234.20	9.6305243	9.6742566
18	42735.79	47269.78	9.6307917	9.6745836
19	42762.09	47305.38	9.6310589	9.6749105
20	42788.38	47340.98	9.6313258	9.6752372
21	42814.67	47376.59	9.6315926	9.6755638
22	42840.95	47412.22	9.6318591	9.6758902
23	42867.23	47447.85	9.6321255	9.6762165
24	42893.51	47483.49	9.6323916	9.6765426
25	42919.79	47519.14	9.6326576	9.6768686
26	42946.06	47554.81	9.6329233	9.6771944
27	42972.33	47590.48	9.6331889	9.6775201
28	42998.59	47626.16	9.6334542	9.6778456
29	43024.85	47661.85	9.6337194	9.6781709
30	43051.11	47697.55	9.6339844	9.6784961

64.Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
60	90630.78	214450.69	9.9572757	10.3313275
59	90618.48	214287.93	9.9572168	10.3309977
58	90606.17	214125.37	9.9571578	10.3306681
57	90593.86	213963.01	9.9570988	10.3303387
56	90581.54	213800.85	9.9570397	10.3300094
55	90569.21	213638.89	9.9569806	10.3296830
54	90556.88	213477.14	9.9569215	10.3293514
53	90544.54	213315.59	9.9568623	10.3290226
52	90532.19	213154.23	9.9568030	10.3286940
51	90519.83	212993.08	9.9567437	10.3283655
50	90507.46	212832.13	9.9566844	10.3280372
49	90495.09	212671.37	9.9566250	10.3277090
48	90482.71	212510.82	9.9565656	10.3273810
47	90470.32	212350.46	9.9565061	10.3270532
46	90457.92	212190.30	9.9564466	10.3267255
45	90445.51	212030.34	9.9563870	10.3263980
44	90433.10	211870.57	9.9563274	10.3260706
43	90420.68	211711.01	9.9562678	10.3257434
42	90408.25	211551.64	9.9562081	10.3254164
41	90395.82	211392.46	9.9561483	10.3250895
40	90383.38	211233.48	9.9560886	10.3247628
39	90370.93	211074.70	9.9560287	10.3244362
38	90358.47	210916.11	9.9559689	10.3241097
37	90346.00	210757.71	9.9559089	10.3237825
36	90333.53	210599.51	9.9558490	10.3234574
35	90321.05	210441.50	9.9557890	10.3231314
34	90308.56	210283.69	9.9557289	10.3228056
33	90296.06	210126.07	9.9556688	10.3224799
32	90283.56	209968.64	9.9556087	10.3221544
31	90271.05	209811.40	9.9555485	10.3218291
30	90258.53	209654.36	9.9554882	10.3215039

Min	25. Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	43051.11	47697.55	9.6339844	9.6784961
31	43077.36	47733.26	9.6342491	9.6788211
32	43103.61	47768.99	9.6345137	9.6791460
33	43129.86	47804.72	9.6347780	9.6794708
34	43156.10	47840.46	9.6350422	9.6797953
35	43182.34	47876.21	9.6353062	9.6801198
36	43208.57	47911.97	9.6355699	9.6804440
37	43234.80	47947.74	9.6358335	9.6807682
38	43261.03	47983.52	9.6360969	9.6810921
39	43287.26	48019.32	9.6363601	9.6814160
40	43313.48	48055.12	9.6366231	9.6817396
41	43339.70	48090.93	9.6368859	9.6820632
42	43365.91	48126.75	9.6371484	9.6823865
43	43392.12	48162.58	9.6374108	9.6827098
44	43418.33	48198.42	9.6376731	9.6830328
45	43444.53	48234.27	9.6379351	9.6833557
46	43470.73	48270.14	9.6381969	9.6836785
47	43496.92	48306.01	9.6384585	9.6840011
48	43523.11	48341.89	9.6387199	9.6843236
49	43549.30	48377.78	9.6389812	9.6846459
50	43575.48	48413.68	9.6392422	9.5849681
51	43601.66	48449.59	9.6395030	9.6852901
52	43627.84	48485.52	9.6397637	9.6856120
53	43654.01	48521.45	9.6400241	9.6859338
54	43680.18	48557.39	9.6402844	9.6862553
55	43706.34	48593.34	9.6405445	9.6865768
56	43732.50	48629.31	9.6408044	9.6868981
57	43758.66	48665.28	9.6410640	9.6872192
58	43784.82	48701.26	9.6413235	9.6875402
59	43810.97	48737.26	9.6415828	9.6878611
60	43837.12	48773.26	9.6418420	9.6881818

Min.	64. Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	90258.53	209654.36	9.9554882	10.3215039
29	90246.00	209497.51	9.9554280	10.3211789
28	90233.47	209340.84	9.9553676	10.3208540
27	90220.93	209184.37	9.9553073	10.3205292
26	90208.38	209028.09	9.9552469	10.3202047
25	90195.82	208872.00	9.9551864	10.3198803
24	90183.25	208716.10	9.9551259	10.3195560
23	90170.68	208560.39	9.9550653	10.3192318
22	90158.10	208404.86	9.9550047	10.3189079
21	90145.51	208249.53	9.9549441	10.3185840
20	90132.91	208094.38	9.9548834	10.3182604
19	90120.31	207939.42	9.9548227	10.3179368
18	90107.70	207784.65	9.9547619	10.3176135
17	90095.08	207630.07	9.9547011	10.3172902
16	90082.45	207475.67	9.9546402	10.3169672
15	90069.82	207321.46	9.9545793	10.3166443
14	90057.18	207167.43	9.9545184	10.3163215
13	90044.53	207013.59	9.9544574	10.3159989
12	90031.87	206859.93	9.9543963	10.3156764
11	90019.21	206706.46	9.9543352	10.3153541
10	90006.54	206553.18	9.9542741	10.3150319
9	89993.86	206400.08	9.9542129	10.3147099
8	89981.17	206247.16	9.9541517	10.3143880
7	89968.48	206094.42	9.9540904	10.3140662
6	89955.78	205941.87	9.9540291	10.3137447
5	89943.07	205789.50	9.9539677	10.3134232
4	89930.35	205637.32	9.9539063	10.3131019
3	89917.62	205485.31	9.9538448	10.3127808
2	89904.89	205333.49	9.9537833	10.3124598
1	89892.15	205181.84	9.9537218	10.3121389
0	89879.40	205030.38	9.9536602	10.3118182

26. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
0	43837.12	48773.26	9.6418420	9.6881815
1	43863.26	48809.27	9.6421009	9.6885023
2	43889.40	48845.30	9.6423596	9.6888227
3	43915.53	48881.33	9.6426182	9.6891430
4	43941.66	48917.37	9.6428765	9.6894631
5	43967.79	48953.43	9.6431347	9.6897831
6	43993.92	48989.49	9.6433926	9.6901030
7	44020.04	49025.57	9.6436504	9.6904226
8	44046.16	49061.66	9.6439080	9.6907422
9	44072.27	49097.75	9.6441654	9.6910616
10	44098.38	49133.86	9.6444226	9.6913809
11	44124.48	49169.97	9.6446796	9.6917000
12	44150.58	49206.10	9.6449365	9.6920189
13	44176.68	49242.24	9.6451931	9.6923378
14	44202.78	49278.38	9.6454496	9.6926565
15	44228.87	49314.54	9.6457058	9.6929750
16	44254.96	49350.71	9.6459619	9.6932934
17	44281.04	49386.89	9.6462178	9.6936117
18	44307.12	49423.08	9.6464735	9.6939298
19	44333.20	49459.28	9.6467290	9.6942478
20	44359.27	49495.49	9.6469844	9.6945656
21	44385.34	49531.71	9.6472395	9.6948833
22	44411.40	49567.94	9.6474945	9.6952009
23	44437.46	49604.18	9.6477492	9.6955183
24	44463.52	49640.43	9.6480038	9.6958355
25	44489.57	49676.69	9.6482582	9.6961527
26	44515.62	49712.97	9.6485124	9.6964697
27	44541.67	49749.25	9.6487665	9.6967865
28	44567.71	49785.54	9.6490203	9.6971032
29	44593.75	49821.85	9.6492740	9.6974198
30	44619.78	49858.16	9.6495274	9.6977363

Min.	63. Grad.			
	Sinus	Tang.	*Log. Sin.*	Log. *Tang.*
60	89879.40	205030.38	9.9536602	10.3118182
59	89866.65	204878.10	9.9535985	10.3114977
58	89853.89	204728.00	9.9535369	10.3111773
57	89841.12	204577.08	9.9534751	10.3108570
56	89828.34	204426.34	9.9534134	10.3105369
55	89815.55	204275.78	9.9533515	10.3102169
54	89802.76	204125.40	9.9532897	10.3098970
53	89789.96	203975.19	9.9532278	10.3095774
52	89777.15	203825.17	9.9531658	10.3092578
51	89764.33	203675.32	9.9531038	10.3089384
50	89751.51	203525.65	9.9530418	10.3086191
49	89738.68	203376.15	9.9529797	10.3083000
48	89725.84	203226.83	9.9529175	10.3079811
47	89712.99	203077.69	9.9528553	10.3076622
46	89700.13	202928.73	9.9527931	10.3073435
45	89687.27	202779.94	9.9527308	10.3070250
44	89674.40	202631.33	9.9526685	10.3067066
43	89661.52	202482.89	9.9526061	10.3063883
42	89648.64	202334.62	9.9525437	10.3060702
41	89635.75	202186.53	9.9524813	10.3057522
40	89622.85	202038.62	9.9524188	10.3054344
39	89609.94	201890.88	9.9523562	10.3051167
38	89597.03	201743.31	9.9522936	10.3047991
37	89584.11	201595.92	9.9522310	10.3044817
36	89571.18	201448.69	9.9521683	10.3041645
35	89558.24	201301.64	9.9521055	10.3038473
34	89545.29	201154.77	9.9520428	10.3035303
33	89532.34	201008.06	9.9519799	10.3032135
32	89519.38	200861.53	9.9519171	10.3028968
31	89506.41	200715.16	9.9518541	10.3025802
30	89493.43	200568.97	9.9517912	10.3022637

Min.	26.Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	44619.78	49858.16	9.6495274	9.6977363
31	44645.81	49894.49	9.6497807	9.6980526
32	44671.84	49930.82	9.6500338	9.6983687
33	44697.86	49967.17	9.6502868	9.6986847
34	44723.88	50003.52	9.6505395	9.6990006
35	44749.90	50039.89	9.6507920	9.6993164
36	44775.91	50076.27	9.6510444	9.6996320
37	44801.92	50112.66	9.6512966	9.6999474
38	44827.92	50149.06	9.6515486	9.7002628
39	44853.92	50185.47	9.6518004	9.7005780
40	44879.92	50221.89	9.6520521	9.7008930
41	44905.91	50258.32	9.6523035	9.7012080
42	44931.90	50294.76	9.6525548	9.7015227
43	44957.89	50331.21	9.6528059	9.7018374
44	44983.87	50367.67	9.6530568	9.7021519
45	45009.85	50404.15	9.6533075	9.7024663
46	45035.82	50440.63	9.6535581	9.7027805
47	45061.79	50477.13	9.6538084	9.7030946
48	45087.76	50513.63	9.6540586	9.7034086
49	45113.72	50550.15	9.6543086	9.7037225
50	45139.68	50586.68	9.6545584	9.7040362
51	45165.63	50623.22	9.6548081	9.7043497
52	45191.58	50659.77	9.6550575	9.7046632
53	45217.53	50696.33	9.6553068	9.7049765
54	45243.47	50732.90	9.6555559	9.7052897
55	45269.41	50769.48	9.6558048	9.7056027
56	45295.35	50806.07	9.6560536	9.7059156
57	45321.28	50842.67	9.6563021	9.7062284
58	45347.21	50879.28	9.6565505	9.7065410
59	45373.13	50915.91	9.6567987	9.7068535
60	45399.05	50952.54	9.6570468	9.7071659

63.Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	89493.43	200568.97	9.9517912	10.3022637
29	89480.45	200422.95	9.9517282	10.3019474
28	89467.46	200277.10	9.9516651	10.3016313
27	89454.46	200131.42	9.9516020	10.3013153
26	89441.45	199985.90	9.9515389	10.3009994
25	89428.44	199840.56	9.9514757	10.3006836
24	89415.42	199695.39	9.9514124	10.3003680
23	89402.39	199550.38	9.9513492	10.3000526
22	89389.36	199405.54	9.9512858	10.2997372
21	89376.32	199260.87	9.9512224	10.2994220
20	89363.27	199116.37	9.9511590	10.2991070
19	89350.21	198972.04	9.9510956	10.2987920
18	89337.14	198827.87	9.9510320	10.2984773
17	89324.06	198683.87	9.9509685	10.2981626
16	89310.98	198540.03	9.9509049	10.2978481
15	89297.89	198396.36	9.9508412	10.2975337
14	89284.79	198252.86	9.9507775	10.2972195
13	89271.69	198109.52	9.9507138	10.2969054
12	89258.58	197966.35	9.9506500	10.2965914
11	89245.46	197823.34	9.9505861	10.2962775
10	89232.33	197680.50	9.9505223	10.2959638
9	89219.20	197537.82	9.9504583	10.2956503
8	89206.06	197395.31	9.9503944	10.2953368
7	89192.91	197252.96	9.9503303	10.2950235
6	89179.75	197110.77	9.9502663	10.2947103
5	89166.59	196968.74	9.9502022	10.2943973
4	89153.42	196826.88	9.9501380	10.2940844
3	89140.24	196685.18	9.9500738	10.2937716
2	89127.05	196543.64	9.9500095	10.2934590
1	89113.85	196402.27	9.9499452	10.2931465
0	89100.65	196261.05	9.9498809	10.2928341

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
0	45399.05	50952.54	9.6570468	9.7071659
1	45424.97	50989.19	9.6572946	9.7074781
2	45450.88	50025.85	9.6575423	9.7077902
3	45476.79	50062.52	9.6577898	9.7081022
4	45502.69	50099.19	9.6580371	9.7084141
5	45528.59	51135.88	9.6582842	9.7087258
6	45554.49	51172.59	9.6585312	9.7090374
7	45580.38	51209.30	9.6587780	9.7093488
8	45606.27	51246.02	9.6590246	9.7096601
9	45632.16	51282.75	9.6592710	9.7099713
10	45658.04	51319.50	9.6595173	9.7002824
11	45683.92	51356.25	9.6597634	9.7005933
12	45709.79	51393.02	9.6600093	9.7009041
13	45735.66	51429.80	9.6602550	9.7112148
14	45761.53	51466.58	9.6605005	9.7115254
15	45787.39	51503.38	9.6607459	9.7118358
16	45813.25	51540.19	9.6609911	9.7121461
17	45839.10	51577.02	9.6612361	9.7124562
18	45864.95	51613.85	9.6614810	9.7127662
19	45890.80	51650.69	9.6617257	9.7130761
20	45916.64	51687.55	9.6619701	9.7133859
21	45942.48	51724.41	9.6622145	9.7136956
22	45968.32	51761.29	9.6624586	9.7140051
23	45994.15	51798.18	9.6627026	9.7143145
24	46019.98	51835.08	9.6629464	9.7146237
25	46045.80	51871.99	9.6631900	9.7149329
26	46071.62	51908.91	9.6634335	9.7152419
27	46097.44	51945.84	9.6636768	9.7155508
28	46123.25	51982.78	9.6639199	9.7158595
29	46149.06	52019.74	9.6641628	9.7161682
30	46174.86	52056.70	9.6644056	9.7164767

62. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
60	89100.65	196261.05	9.9498809	10.2928341
59	89087.44	196120.00	9.9498165	10.2925219
58	89074.22	195979.10	9.9497521	10.2922098
57	89061.00	195838.37	9.9496876	10.2918978
56	89047.77	195697.80	9.9496230	10.2915859
55	89034.53	195557.39	9.9495585	10.2912742
54	89021.28	195417.13	9.9494928	10.2909626
53	89008.02	195277.04	9.9494292	10.2906512
52	88994.76	195137.11	9.9493645	10.2903399
51	88981.49	194997.33	9.9492997	10.2900287
50	88968.21	194857.71	9.9492349	10.2897176
49	88954.93	194718.26	9.9491700	10.2894067
48	88941.64	194578.96	9.9491051	10.2890959
47	88928.34	194439.81	9.9490402	10.2887852
46	88915.03	194300.83	9.9489752	10.2884746
45	88901.71	194162.00	9.9489101	10.2881642
44	88888.39	194023.33	9.9488450	10.2878539
43	88875.06	193884.81	9.9487799	10.2875438
42	88861.72	193746.45	9.9487147	10.2872338
41	88848.37	193608.25	9.9486495	10.2869239
40	88835.02	193470.20	9.9485842	10.2866141
39	88821.66	193332.31	9.9485189	10.2863044
38	88808.29	193194.57	9.9484535	10.2859949
37	88794.92	193056.98	9.9483881	10.2856855
36	88781.54	192919.56	9.9483227	10.2853763
35	88768.15	192782.28	9.9482572	10.2850671
34	88754.75	192645.16	9.9481916	10.2847581
33	88741.34	192508.19	9.9481260	10.2844492
32	88727.93	192371.38	9.9480604	10.2841405
31	88714.51	192234.72	9.9479947	10.2838318
30	88701.08	192098.21	9.9479289	10.2835233

27.Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	46174.86	52056.70	9.6644056	9.7164767
31	46200.66	52093.68	9.6646482	9.7167851
32	46226.46	52130.67	9.6648906	9.7170933
33	46252.25	52167.67	9.6651329	9.7174014
34	46278.04	52204.68	9.6653749	9.717[illegible]094
35	46303.82	52241.70	9.6656168	9.7180173
36	46329.60	52278.74	9.6658586	9.7183251
37	46355.38	52315.78	9.6661001	9.7186327
38	46381.15	52352.84	9.6663415	9.7189402
39	46406.92	52389.90	9.6665828	9.7192476
40	46432.69	52426.98	9.6668238	9.7195549
41	46458.45	52464.07	9.6670647	9.7198620
42	46484.21	52501.17	9.6673054	9.7201690
43	46509.96	52538.29	9.6675459	9.7204759
44	46535.71	52575.41	9.6677863	9.7207827
45	46561.45	52612.54	9.6680265	9.7210893
46	46587.19	52649.69	9.6682665	9.7213958
47	46612.93	52686.85	9.6685064	9.7217022
48	46638.66	52724.02	9.6687461	9.7220085
49	46664.39	52761.20	9.6689856	9.7223147
50	46690.12	52798.39	9.6692250	9.7226207
51	46715.84	52835.59	9.6694642	9.7229266
52	46741.56	52872.81	9.6697032	9.7232324
53	46767.27	52910.04	9.6699420	9.7235381
54	46792.98	52947.27	9.6701807	9.7238436
55	46818.69	52984.52	9.6704192	9.7241490
56	46844.39	53021.78	9.6706576	9.7244543
57	46870.09	53059.0[illegible]	9.6708958	9.7247595
58	46895.78	53096.34	9.6711338	9.7250646
59	46921.47	53133.64	9.6713716	9.7253695
60	46947.16	53170.94	9.6716093	9.7256744

62.Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	88701.08	192098.21	9.9479289	10.2835233
29	88687.64	191961.86	9.9478631	10.2832149
28	88674.20	191825.65	9.9477973	10.2829067
27	88660.75	191689.60	9.9477314	10.2825986
26	88647.29	191553.70	9.9476655	10.2822906
25	88633.83	191417.95	9.9475995	10.2819827
24	88620.36	191282.36	9.9475335	10.2816749
23	88606.88	191146.91	9.9474674	10.2813637
22	88593.39	191011.62	9.9474013	10.2810598
21	88579.89	190876.47	9.9473352	10.2807524
20	88566.39	190741.47	9.9472689	10.2804451
19	88552.88	190606.63	9.9472027	10.2801380
18	88539.36	190471.93	9.9471364	10.2798310
17	88525.83	190337.38	9.9470700	10.2795241
16	88512.30	190202.99	9.9470036	10.2792173
15	88498.76	190068.74	9.9469372	10.2789107
14	88485.22	189934.64	9.9408707	10.2786042
13	88471.66	189800.68	9.9468042	10.2782978
12	88458.10	189666.88	9.9467376	10.2779915
11	88444.53	189533.22	9.9466710	10.2776853
10	88430.95	189399.71	9.9466043	10.2773793
9	88417.36	189266.34	9.9465376	10.2770734
8	88403.77	189133.13	9.9464708	10.2767676
7	88390.17	189000.06	9.9464040	10.2764619
6	88376.56	188867.13	9.9463371	10.2761564
5	88362.94	188734.36	9.9462702	10.2758510
4	88349.32	188601.72	9.9462032	10.2755457
3	88335.69	188469.24	9.9461362	10.2752405
2	88322.05	188336.90	9.9460692	10.2749354
1	88308.41	188204.70	9.9460021	10.2746305
0	88294.76	188072.65	9.9459349	10.2743256

28. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
0	46947.16	53170.94	9.6716093	9.7256744
1	46972.84	53208.26	9.6718468	9.7259791
2	46998.52	53245.59	9.6720841	9.7262837
3	47024.19	53282.93	9.6723213	9.72658[illegible]
4	47049.86	53320.29	9.6725583	9.7268925
5	47075.53	53357.65	9.6727952	9.7271967
6	47101.19	53395.03	9.6730319	9.7275028
7	47126.85	53432.42	9.6732684	9.7278048
8	47152.50	53469.82	9.6735047	9.7281087
9	47178.15	53507.23	9.6737409	9.7284124
10	47203.80	53544.65	9.6739769	9.7287161
11	47229.44	53582.08	9.6742128	9.7290196
12	47255.08	53619.53	9.6744485	9.7293230
13	47280.71	53656.99	9.6746840	9.7296263
14	47306.34	53694.46	9.6749194	9.7299295
15	47331.97	53731.94	9.6751546	9.7302325
16	47357.59	53769.43	9.6753896	9.7305354
17	47383.21	53806.94	9.6756245	9.7308383
18	47408.82	53844.45	9.6758592	9.7311410
19	47434.43	53881.98	9.6760937	9.7314436
20	47460.04	53919.52	9.6763281	9.7317460
21	47485.64	53957.07	9.6765623	9.7320484
22	47511.24	53994.64	9.6767963	9.7323506
23	47536.83	54032.21	9.6770302	9.7326527
24	47562.42	54069.80	9.6772640	9.7329547
25	47588.01	54107.40	9.6774975	9.7332566
26	47613.59	54145.01	9.6777309	9.7335584
27	47639.17	54182.63	9.6779642	9.7338601
28	47664.74	54220.27	9.6781972	9.7341616
29	47690.31	54257.91	9.6784301	9.7344631
30	47715.88	54295.57	9.6786629	9.7347644

61. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
60	88294.76	188072.65	9.9459349	10.2743256
59	88281.10	187940.74	9.9458677	10.2740209
58	88267.43	187808.98	9.9458005	10.2737163
57	88253.75	187677.36	9.9457332	10.2734119
56	88240.07	187545.88	9.9456659	10.2731075
55	88226.38	187414.55	9.9455985	10.2728033
54	88212.68	187283.36	9.9455310	10.2724992
53	88198.98	187152.31	9.9454636	10.2721952
52	88185.27	187021.41	9.9453960	10.2718913
51	88171.55	186890.64	9.9453285	10.2715876
50	88157.82	186760.03	9.9452609	10.2712839
49	88144.09	186629.55	9.9451932	10.2709804
48	88130.35	186499.21	9.9451255	10.2706770
47	88116.60	186369.02	9.9450577	10.2703737
46	88102.84	186238.96	9.9449899	10.2700705
45	88089.07	186109.05	9.9449220	10.2697675
44	88075.30	185979.28	9.9448541	10.2694646
43	88061.52	185849.65	9.9447862	10.2691617
42	88047.73	185720.15	9.9447182	10.2688590
41	88033.94	185590.80	9.9446501	10.2685564
40	88020.14	185461.59	9.9445821	10.2682540
39	88006.33	185332.52	9.9445139	10.2679516
38	87992.51	185203.58	9.9444457	10.2676494
37	87978.69	185074.79	9.9443775	10.2673473
36	87964.86	184946.13	9.9443092	10.2670453
35	87951.01	184817.61	9.9442409	10.2667434
34	87937.17	184689.23	9.9441725	10.2664416
33	87923.32	184560.99	9.9441041	10.2661399
32	87909.46	184432.89	9.9440356	10.2658384
31	87895.59	184304.92	9.9439671	10.2655369
30	87881.71	184177.09	9.9438985	10.2652356

28. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	47715.88	54295.57	9.6786629	9.7347644
31	47741.44	54333.24	9.6788955	9.7350656
32	47767.00	54370.92	9.6791279	9.7353667
33	47792.55	54408.62	9.6793602	9.7356677
34	47818.10	54446.32	9.6795923	9.7359685
35	47843.64	54484.04	9.6798243	9.7362693
36	47869.18	54521.77	9.6800560	9.7365699
37	47894.72	54559.51	9.6802877	9.7368705
38	47920.26	54597.26	9.6805191	9.7371709
39	47945.79	54635.03	9.6807504	9.7374712
40	47971.31	54672.81	9.6809816	9.7377714
41	47996.83	54710.60	9.6812126	9.7380715
42	48022.35	54748.40	9.6814434	9.7383714
43	48047.86	54786.21	9.6816741	9.7386713
44	48073.37	54824.04	9.6819046	9.7389710
45	48098.88	54861.88	9.6821349	9.7392707
46	48124.38	54899.73	9.6823651	9.7395702
47	48149.88	54937.59	9.6825952	9.7398696
48	48175.37	54975.46	9.6828250	9.7401689
49	48200.86	55013.35	9.6830548	9.7404681
50	48226.34	55051.25	9.6832843	9.7407672
51	48251.82	55089.16	9.6835137	9.7410662
52	48277.30	55127.08	9.6837430	9.7413650
53	48302.77	55165.02	9.6839720	9.7416638
54	48328.24	55202.97	9.6842010	9.7419624
55	48353.70	55240.93	9.6844297	9.7422609
56	48379.16	55278.90	9.6846583	9.7425594
57	48404.62	55316.88	9.6848868	9.7428577
58	48430.07	55354.88	9.6851151	9.7431559
59	48455.52	55392.88	9.6853432	9.7434540
60	48480.96	55430.90	9.6855712	9.7437520

61. Grad.

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	87881.71	184177.09	9.9438985	10.2652356
29	87867.83	184049.39	9.9438299	10.2649344
28	87853.94	183921.84	9.9437612	10.2646333
27	87840.04	183794.42	9.9436925	10.2643323
26	87826.13	183667.13	9.9436238	10.2640315
25	87812.22	183539.99	9.9435549	10.2637307
24	87798.30	183412.97	9.9434861	10.2634301
23	87784.37	183286.10	9.9434172	10.2631295
22	87770.43	183159.36	9.9433482	10.2628291
21	87756.49	183032.75	9.9432792	10.2625288
20	87742.54	182906.28	9.9432102	10.2622286
19	87728.58	182779.94	9.9431411	10.2619285
18	87714.61	182653.74	9.9430720	10.2616286
17	87700.64	182527.67	9.9430028	10.2613287
16	87686.66	182401.73	9.9429335	10.2610290
15	87672.67	182275.93	9.9428643	10.2607293
14	87658.68	182150.26	9.9427949	10.2604298
13	87644.68	182024.73	9.9427255	10.2601304
12	87630.67	181899.32	9.9426561	10.2598311
11	87616.65	181774.05	9.9425866	10.2595319
10	87602.62	181648.92	9.9425171	10.2592328
9	87588.59	181523.91	9.9424476	10.2589338
8	87574.55	181399.04	9.9423779	10.2586350
7	87560.50	181274.30	9.9423083	10.2583362
6	87546.45	181149.69	9.9422386	10.2580376
5	87532.39	181025.21	9.9421688	10.2577391
4	87518.32	180900.86	9.9420990	10.2574406
	87504.24	180776.64	9.9420291	10.2571423
2	87490.16	180652.56	9.9419592	10.2568441
1	87476.07	180528.60	9.9418893	10.2565460
0	87461.97	180404.78	9.9418193	10.2562480

29.Grad.

Min.	Sinus	Tang.	Log. Sin.	Log.Tang.
0	48480.96	55430.90	9.6855712	9.7437520
1	48506.40	55468.94	9.6857991	9.7440499
2	48531.84	55506.98	9.6860267	9.7443476
3	48557.27	55545.04	9.6862542	9.7446453
4	48582.70	55583.11	9.6864816	9.7449428
5	48608.12	55621.19	9.6867088	9.7452403
6	48633.54	55659.29	9.6869359	9.7455376
7	48658.95	55697.39	9.6871628	9.7458349
8	48684.36	55735.51	9.6873895	9.7461320
9	48709.77	55773.64	9.6876161	9.7464290
10	48735.17	55811.79	9.6878425	9.7467259
11	48760.57	55849.94	9.6880688	9.7470227
12	48785.97	55888.11	9.6882949	9.7473194
13	48811.36	55926.29	9.6885209	9.7476160
14	48836.74	55964.48	9.6887467	9.7479125
15	48862.12	56002.69	9.6889723	9.7482089
16	48887.50	56040.91	9.6891978	9.7485052
17	48912.87	56079.14	9.6894232	9.7488013
18	48938.24	56117.38	9.6896484	9.7490974
19	48963.61	56155.64	9.6898734	9.7493934
20	48988.97	56193.91	9.6900983	9.7496892
21	49014.33	56232.19	9.6903231	9.7499850
22	49039.68	56270.48	9.6905476	9.7502806
23	49065.03	56308.79	9.6907721	9.7505762
24	49090.37	56347.10	9.6909964	9.7508716
25	49115.71	56385.43	9.6912205	9.7511669
26	49141.05	56423.78	9.6914445	9.7514622
27	49166.37	56462.13	9.6916683	9.7517573
28	49191.71	56500.50	9.6918919	9.7520523
29	49217.04	56538.88	9.6921155	9.7523472
30	49242.36	56577.28	9.6923388	9.7526420

60. Grad.

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
60	87461.97	180404.78	9.9418193	10.2562480
59	87447.86	180281.08	9.9417492	10.2559501
58	87433.75	180157.51	9.9416791	10.2556524
57	87419.63	180034.08	9.9416090	10.2553547
56	87405.50	179910.77	9.9415388	10.2550572
55	87391.36	179787.59	9.9414685	10.2547597
54	87377.22	179664.54	9.9413982	10.2544624
53	87363.07	179541.62	9.9413279	10.2541651
52	87348.91	179418.83	9.9412575	10.2538680
51	87334.75	179296.16	9.9411871	10.2535710
50	87320.58	179173.62	9.9411166	10.2532741
49	87306.40	179051.21	9.9410461	10.2529773
48	87292.21	178928.93	9.9409755	10.2526806
47	87278.01	178806.78	9.9409048	10.2523840
46	87263.81	178684.75	9.9408342	10.2520875
45	87249.60	178562.85	9.9407634	10.2517911
44	87235.38	178441.07	9.9406927	10.2514948
43	87221.16	178319.43	9.9406219	10.2511987
42	87206.93	178197.90	9.9405510	10.2509026
41	87192.69	178076.51	9.9404801	10.2506066
40	87178.44	177955.24	9.9404091	10.2503108
39	87164.19	177834.09	9.9403381	10.2500150
38	87149.93	177713.07	9.9402670	10.2497194
37	87135.66	177592.18	9.9401959	10.2494238
36	87121.38	177471.41	9.9401248	10.2491284
35	87107.10	177350.76	9.9400535	10.2488331
34	87092.81	177230.24	9.9399823	10.2485378
33	87078.51	177109.85	9.9399110	10.2482427
32	87064.20	176989.58	9.9398396	10.2479477
31	87049.89	176869.43	9.9397662	10.2476528
30	87035.57	176749.40	9.9396968	10.2473580

30. Grad.

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	49242.36	56577.28	9.6923388	9.7526420
31	49267.67	56615.68	9.6925620	9.7529368
32	49292.98	56654.10	9.6927851	9.7532314
33	49318.29	56692.53	9.6930080	9.7535259
34	49343.59	56730.98	9.6932308	9.7538203
35	49368.89	56769.44	9.6934534	9.7541146
36	49394.19	56807.91	9.6936758	9.7544088
37	49419.48	56846.39	9.6938981	9.7547029
38	49444.77	56884.88	9.6941203	9.7549969
39	49470.05	56923.39	9.6943423	9.7552908
40	49495.33	56961.91	9.6945642	9.7555846
41	49520.60	57000.45	9.6947859	9.7558783
42	49545.87	57038.99	9.6950074	9.7561718
43	49571.13	57077.55	9.6952288	9.7564653
44	49596.39	57116.12	9.6954501	9.7567587
45	49621.65	57154.71	9.6956712	9.7570520
46	49646.90	57193.31	9.6958922	9.7573452
47	49672.15	57231.92	9.6961130	9.7576383
48	49697.40	57270.54	9.6963336	9.7579313
49	49722.64	57309.18	9.6965541	9.7582242
50	49747.87	57347.83	9.6967745	9.7585170
51	49773.10	57386.49	9.6969947	9.7588096
52	49798.33	57425.16	9.6972148	9.7591022
53	49823.55	57463.85	9.6974347	9.7593947
54	49848.77	57502.55	9.6976545	9.7596871
55	49873.99	57541.26	9.6978741	9.7599794
56	49899.20	57579.99	9.6980936	9.7602716
57	49924.41	57618.73	9.6983129	9.7605637
58	49949.61	57657.48	9.6985321	9.7608557
59	49974.81	57696.25	9.6987511	9.7611476
60	50000.00	57735.03	9.6989700	9.7614394

Min.	60.Grad.			
	Sinus	Tang.	*Log.Sin.*	*Log. Tang.*
30	87035.57	176749.40	9.9396968	10.2473580
29	87021.24	176629.50	9.9396253	10.2470632
28	87006.90	176509.72	9.9395537	10.2467686
27	86992.56	176390.07	9.9394821	10.2464741
26	86978.21	176270.53	9.9394105	10.2461797
25	86963.85	176151.12	9.9393388	10.2458854
24	86949.49	176031.83	9.9392671	10.2455912
23	86935.12	175912.67	9.9391953	10.2452971
22	86920.74	175793.62	9.9391234	10.2450031
21	86906.35	175674.70	9.9390515	10.2447092
20	86891.96	175555.90	9.9389796	10.2444154
19	86877.56	175437.22	9.9389076	10.2441217
18	86863.15	175318.66	9.9388356	10.2438282
17	86848.73	175200.23	9.9387635	10.2435347
16	86834.31	175081.91	9.9386914	10.2432413
15	86819.88	174963.71	9.9386192	10.2429480
14	86805.44	174845.64	9.9385470	10.2426548
13	86791.00	174727.68	9.9384747	10.2423617
12	86776.55	173609.84	9.9384024	10.2420687
11	86762.09	174492.13	9.9383300	10.2417758
10	86747.62	174374.53	9.9382576	10.2414830
9	86733.14	174257.05	9.9381851	10.2411904
8	86718.66	174139.69	9.9381126	10.2408978
7	86704.17	174022.45	9.9380400	10.2406053
6	86689.67	174905.33	9.9379674	10.2403129
5	86675.17	173788.33	9.9378947	10.2400206
4	86660.66	173671.44	9.9378220	10.2397284
3	86646.14	173554.68	9.9377492	10.2394363
2	86631.61	173438.03	9.9376764	10.2391443
1	86617.08	173321.49	9.9376035	10.2388524
0	86602.54	173205.08	9.9375306	10.2385606

30.Grad.

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
0	50000.00	57735.03	9.6989700	9.7614394
1	50025.19	57773.82	9.6991887	9.7617311
2	50050.38	57812.62	9.6994073	9.7620227
3	50075.56	57851.44	9.6996258	9.7623142
4	50100.74	57890.27	9.6998441	9.7626056
5	50125.91	57929.11	9.7000622	9.7628969
6	50151.08	57967.97	9.7002802	9.7631881
7	50176.24	58006.84	9.7004981	9.7634792
8	50201.40	58045.73	9.7007158	9.7637702
9	50226.55	58084.62	9.7009334	9.7640612
10	50251.70	58123.53	9.7011508	9.7643520
11	50276.85	58162.45	9.7013681	9.7646427
12	50301.99	58201.39	9.7015852	9.7649334
13	50327.13	58240.34	9.7018022	9.7652239
14	50352.27	58279.30	9.7020190	9.7655143
15	50377.40	58318.28	9.7022357	9.7658047
16	50402.53	58357.27	9.7024523	9.7660949
17	50427.65	58396.27	9.7026687	9.7663851
18	50452.77	58435.28	9.7028849	9.7666751
19	50477.88	58474.31	9.7031011	9.7669651
20	50502.99	58513.35	9.7033170	9.7672550
21	50528.09	58552.41	9.7035329	9.7675448
22	50553.19	58591.48	9.7037486	9.7678344
23	50578.28	58630.56	9.7039641	9.7681240
24	50603.37	58669.65	9.7041795	9.7684135
25	50628.46	58708.76	9.7043947	9.7687029
26	50653.55	58747.88	9.7046099	9.7689922
27	50678.63	58787.02	9.7048249	9.7692814
28	50703.70	58826.17	9.7050397	9.7695705
29	50728.77	58865.33	9.7052543	9.7698596
30	50753.84	58904.50	9.7054689	9.7701485

Min.	59. Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
60	86602.54	173205.08	9.9375306	10.2385600
59	86587.99	173088.78	9.9374577	10.2382689
58	86573.43	172972.60	9.9373847	10.2379773
57	86558.87	172856.54	9.9373116	10.2376858
56	86544.30	172740.60	9.9372385	10.2373944
55	86529.72	172624.77	9.9371653	10.2371031
54	86515.14	172509.05	9.9370921	10.2368119
53	86500.55	172393.45	9.9370189	10.2365208
52	86485.95	172277.97	9.9369456	10.2362298
51	86471.34	172162.61	9.9368722	10.2359388
50	86456.73	172047.36	9.9367988	10.2356480
49	86442.11	171932.22	9.9367254	10.2353573
48	86427.48	171817.20	9.9366519	10.2350666
47	86412.84	171702.30	9.9365783	10.2347761
46	86398.20	171587.51	9.9365047	10.2344857
45	86383.55	171472.83	9.9364311	10.2341953
44	86368.89	171358.27	9.9363574	10.2339051
43	86354.23	171243.82	9.9362836	10.2336149
42	86339.56	171129.49	9.9362098	10.2333249
41	86324.88	171015.27	9.9361360	10.2330349
40	86310.19	170901.16	9.9360621	10.2327450
39	86295.49	170787.17	9.9359881	10.2324552
38	86280.79	170673.29	9.9359141	10.2321656
37	86266.08	170559.53	9.9358401	10.2318760
36	86251.36	170445.87	9.9357660	10.2315865
35	86236.64	170332.33	9.9356918	10.2312971
34	86221.91	170218.90	9.9356177	10.2310078
33	86207.17	170105.59	9.9355434	10.2307186
32	86192.43	169992.38	9.9354691	10.2304295
31	86177.68	169879.29	9.9353948	10.2301404
30	85162.92	169766.31	9.9353204	10.2298515

30. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	50753.84	58904.50	9.7054689	9.7701485
31	50778.90	58943.69	9.7056833	9.7704373
32	50803.96	58982.89	9.7058975	9.7707261
33	50829.01	59022.11	9.7061116	9.7710147
34	50854.06	59061.34	9.7063256	9.7713033
35	50879.10	59100.58	9.7065394	9.7715917
36	50904.14	59139.83	9.7067531	9.7718801
37	50929.18	59179.10	9.7069667	9.7721684
38	50954.21	59218.39	9.7071801	9.7724566
39	50979.24	59257.68	9.7073933	9.7727447
40	51004.26	59296.99	9.7076064	9.7730327
41	51029.28	59336.32	9.7078194	9.7733206
42	51054.29	59375.66	9.7080323	9.7736084
43	51079.30	59415.01	9.7082450	9.7738961
44	51104.31	59454.37	9.7084575	9.7741838
45	51129.31	59493.75	9.7086699	9.7744713
46	51154.31	59533.14	9.7088822	9.7747588
47	51179.30	59572.54	9.7090943	9.7750462
48	51204.29	59611.96	9.7093063	9.7753334
49	51229.27	59651.40	9.7095182	9.7756206
50	51254.25	59690.84	9.7097299	9.7759077
51	51279.22	59730.30	9.7099415	9.7761947
52	51304.19	59769.78	9.7101529	9.7764816
53	51329.16	59809.27	9.7103642	9.7767685
54	51354.12	59848.77	9.7105753	9.7770552
55	51379.08	59888.28	9.7107863	9.7773418
56	51404.04	59927.81	9.7109972	9.7776284
57	51428.99	59967.35	9.7112080	9.7779149
58	51453.93	60006.91	9.7114186	9.7782012
59	51478.87	60046.48	9.7116290	9.7784875
60	51503.81	60086.06	9.7118393	9.7787737

Min.	59. Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	86162.92	169766.31	9.9353204	10.2298515
29	86148.15	169653.44	9.9352455	10.2295627
28	86133.37	169540.69	9.9351715	10.2292739
27	86118.59	169428.04	9.9350969	10.2289853
26	86103.80	169315.50	9.9350223	10.2286967
25	86089.00	169203.08	9.9349477	10.2284083
24	86074.20	169090.77	9.9348730	10.2281199
23	86059.39	168978.56	9.9347983	10.2278316
22	86044.57	168866.47	9.9347235	10.2275434
21	86029.74	168754.49	9.9346486	10.2272553
20	86014.91	168642.61	9.9345738	10.2269673
19	86000.07	168530.85	9.9344988	10.2266794
18	85985.22	168419.19	9.9344238	10.2263916
17	85970.37	168307.65	9.9343488	10.2261039
16	85955.51	168196.21	9.9342737	10.2258162
15	85940.64	168084.89	9.9341986	10.2255287
14	85925.76	167973.67	9.9341234	10.2252412
13	85910.88	167862.56	9.9340482	10.2249538
12	85895.99	167751.56	9.9339729	10.2246666
11	85881.09	167640.67	9.9338976	10.2243794
10	85866.18	167529.88	9.9338222	10.2240923
9	85851.27	167419.21	9.9337467	10.2238053
8	85836.35	167308.64	9.9336713	10.2235184
7	85821.42	167198.18	9.9335957	10.2232315
6	85806.49	167087.82	9.9335201	10.2229448
5	85791.55	166977.58	9.9334445	10.2226587
4	85776.60	166867.44	9.9333688	10.2223716
3	85761.64	166757.41	9.9332931	10.2220851
2	85746.68	166647.48	9.9332173	10.2217988
1	85731.71	166537.66	9.9331415	10.2215125
0	85716.73	166427.95	9.9330656	10.2212263

31. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
0	51503.81	60086.06	9.7118393	9.7787737
1	51528.74	60125.66	9.7120495	9.7790599
2	51553.67	60165.27	9.7122596	9.7793459
3	51578.59	60204.90	9.7124695	9.7796318
4	51603.51	60244.54	9.7126792	9.7799177
5	51628.42	60284.19	9.7128889	9.7802033
6	51653.33	60323.86	9.7130983	9.7804891
7	51678.24	60363.54	9.7133077	9.7807747
8	51703.14	60403.23	9.7135169	9.7810602
9	51728.04	60442.94	9.7137260	9.7813456
10	51752.93	60482.66	9.7139349	9.7816309
11	51777.82	60522.40	9.7141437	9.7819162
12	51802.70	60562.15	9.7143524	9.7822013
13	51827.58	60601.92	9.7145609	9.7824864
14	51852.46	60641.70	9.7147693	9.7827713
15	51877.33	60681.49	9.7149776	9.7830562
16	51902.19	60721.30	9.7151857	9.7833410
17	51927.05	60761.12	9.7153937	9.7836258
18	51951.91	60800.95	9.7156015	9.7839104
19	51976.76	60840.80	9.7158092	9.7841949
20	52001.61	60880.67	9.7160168	9.7844794
21	52026.46	60920.54	9.7162243	9.7847638
22	52051.30	60960.43	9.7164316	9.7850481
23	52076.13	61000.34	9.7166387	9.7853323
24	52100.96	61040.26	9.7168458	9.7856164
25	52125.79	61080.19	9.7170526	9.7859004
26	52150.61	61120.14	9.7172594	9.7861844
27	52175.43	61160.11	9.7174660	9.786468[illegible]
28	52200.24	61200.08	9.7176725	9.7867520
29	52225.05	61240.07	9.7178789	9.7870357
30	52249.86	61280.08	9.7180851	9.787319[illegible]

58. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
60	85716.73	166427.95	9.9330656	10.2212263
59	85701.74	166318.34	9.932989	10.2209401
58	85686.75	166208.84	9.9329137	10.2206541
57	85671.75	166099.45	9.9328376	10.2203682
56	85656.74	165990.16	9.9327611	10.2200823
55	85641.73	165880.97	9.9326854	10.2197966
54	85626.71	165771.89	9.9326092	10.2195109
53	85611.68	165662.92	9.9325330	10.2192253
52	85596.64	165554.05	9.9324567	10.2189398
51	85581.60	165445.29	9.9323804	10.2186544
50	85566.55	165336.63	9.9323040	10.2183691
49	85551.49	165228.08	9.9322276	10.2180838
48	85536.42	165119.63	9.9321511	10.2177987
47	85521.35	165011.28	9.9320746	10.2175136
46	85506.27	164903.04	9.9319980	10.2172287
45	85491.18	164794.90	9.9319213	10.2169438
44	85476.09	164686.86	9.9318447	10.2166590
43	85460.99	164578.93	9.9317679	10.2163742
42	85445.88	164471.11	9.9316911	10.2160896
41	85430.76	164363.38	9.9316143	10.2158051
40	85415.64	164255.76	9.9315374	10.2155206
39	85400.51	164148.24	9.9314605	10.2152362
38	85385.37	164040.82	9.9313835	10.2149519
37	85370.23	163933.51	9.9313065	10.2146677
36	85355.08	163826.30	9.9312294	10.2143836
35	85339.92	163719.19	9.9311522	10.2140996
34	85324.75	163612.18	9.9310750	10.2138156
33	85309.58	163505.28	9.9309978	10.2135318
32	85294.40	163398.47	9.930920[illegible]	10.2132480
31	85279.21	163291.77	9.9308432	10.2129643
30	85264.02	163185.17	9.9307658	10.2126807

31. Grad.

Min.	Sinus	Tang.	Log.Sin.	Log.Tang.
30	52249.86	61280.08	9.7180851	9.7873193
31	52274.66	61320.10	9.7182912	9.7876028
32	52299.45	61360.13	9.7184971	9.7878863
33	52324.24	61400.18	9.7187030	9.7881696
34	52349.03	61440.24	9.7189086	9.7884529
35	52373.81	61480.32	9.7191142	9.7887361
36	52398.59	61520.41	9.7193196	9.7890192
37	52423.36	61560.52	9.7195249	9.7893023
38	52448.13	61600.64	9.7197300	9.7895852
39	52472.90	61640.77	9.7199350	9.7898681
40	52497.66	61680.92	9.7201399	9.7901508
41	52522.41	61721.08	9.7203447	9.7904335
42	52547.16	61761.26	9.7205493	9.7907161
43	52571.91	61801.45	9.7207538	9.7909987
44	52596.65	61841.66	9.7209581	9.7912811
45	52621.39	61881.88	9.7211623	9.7915635
46	52646.12	61922.11	9.7213664	9.7918458
47	52670.85	61962.36	9.7215704	9.7921280
48	52695.58	62002.63	9.7217742	9.7924101
49	52720.30	62042.91	9.7219779	9.7926921
50	52745.02	62083.20	9.7221814	9.7929741
51	52769.73	62123.51	9.7223848	9.793256[illegible]
52	52794.44	62163.83	9.7225881	9.793537[illegible]
53	52819.14	62204.17	9.7227913	9.793819[illegible]
54	52843.84	62244.52	9.7229943	9.794101[illegible]
55	52868.53	62284.88	9.7231972	9.794382[illegible]
56	52893.22	62325.26	9.7234000	9.794664[illegible]
57	52917.90	62365.66	9.7236026	9.794945[illegible]
58	52942.58	62406.07	9.7238051	9.795226[illegible]
59	52967.26	62446.50	9.7240075	9.795508[illegible]
60	52991.93	62486.94	9.7242097	9.795789[illegible]

Min.	58.Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log.Tang.*
30	85264.02	163185.17	9.9307658	10.2126807
29	85248.81	163078.67	9.9306883	10.2123972
28	85233.60	162972.27	9.9306109	10.2121137
27	85218.38	162865.97	9.9305333	10.2118304
26	85203.16	162759.77	9.9304557	10.2115471
25	85187.93	162653.68	9.9303781	10.2112639
24	85172.69	162547.68	9.9303004	10.2109808
23	85157.44	162441.78	9.9302226	10.2106977
22	85142.19	162335.99	9.9301448	10.2104148
21	85126.93	162230.29	9.9300670	10.2101319
20	85111.66	162124.69	9.9299891	10.2098492
19	85096.39	162019.20	9.9299112	10.2095665
18	85081.11	161913.80	9.9298332	10.2092839
17	85065.82	161808.50	9.9297551	10.2090013
16	85050.52	161703.30	9.9296770	10.2087189
15	85035.22	161598.20	9.9295989	10.2084365
14	85019.91	161493.20	9.9295207	10.2081542
13	85004.59	161388.29	9.9294424	10.2078720
12	84989.27	161283.49	9.9293641	10.2075899
11	84973.94	161178.78	9.9292857	10.2073079
10	84958.60	161074.17	9.9292073	10.2070259
9	84943.25	160969.66	9.9291289	10.2067440
8	84927.90	160865.25	9.9290504	10.2064622
7	84912.54	160760.94	9.9289718	10.2061805
6	84897.17	160656.72	9.9288932	10.2058989
5	84881.79	160552.60	9.9288145	10.2056173
4	84866.41	160448.58	9.9287358	10.2053359
3	84851.02	160344.65	9.9286571	10.2050545
2	84835.62	160240.82	9.9285783	10.2047732
1	84820.22	160137.09	9.9284994	10.2044919
0	84804.81	160033.45	9.9284205	10.2042108

32. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
0	52991.93	62486.94	9.7242097	9.795789
1	53016.59	62527.39	9.7244118	9.796070
2	53041.25	62567.86	9.7246138	9.796351
3	53065.91	62608.34	9.7248156	9.796632
4	53090.56	62648.84	9.7250174	9.796913
5	53115.21	62689.35	9.7252189	9.797193
6	53139.86	62729.88	9.7254204	9.797474
7	53164.50	62770.42	9.7256217	9.797755
8	53189.13	62810.98	9.7258229	9.798035
9	53213.76	62851.56	9.7260240	9.798316
10	53238.39	62892.15	9.7262249	9.798596
11	53263.01	62932.75	9.7264257	9.798876
12	53287.63	62973.36	9.7266264	9.799156
13	53312.24	63013.99	9.7268269	9.799437
14	53336.85	63054.64	9.7270273	9.799717
15	53361.45	63095.30	9.7272276	9.799997
16	53386.05	63135.98	9.7274278	9.800276
17	53410.64	63176.67	9.7276278	9.800556
18	53435.23	63217.38	9.7278277	9.800836
19	53459.82	63258.10	9.7280275	9.801116
20	53484.40	63298.83	9.7282271	9.801395
21	53508.98	63339.58	9.7284267	9.801675
22	53533.55	63380.35	9.7286260	9.801954
23	53558.12	63421.13	9.7288253	9.802234
24	53582.68	63461.93	9.7290244	9.802513
25	53607.24	63502.74	9.7292234	9.802792
26	53631.79	63543.57	9.7294223	9.803071
27	53656.34	63584.41	9.7296211	9.803350
28	53680.88	63625.27	9.7298197	9.803629
29	53705.42	63666.14	9.7300182	9.803908
30	53729.96	63707.03	9.7302165	9.804187

Min.	57. Grad. Sinus	Tang.	Log. Sin.	Log. Tang.
60	84804.81	160033.45	9.9284205	10.2042108
59	84789.39	159929.91	9.9283415	10.2039297
58	84773.96	159826.47	9.9282625	10.2036487
57	84758.53	159723.12	9.9281834	10.2033678
56	84743.09	159619.87	9.9281043	10.2030870
55	84727.64	159516.72	9.9280251	10.2028062
54	84712.19	159413.66	9.9279459	10.2025255
53	84696.73	159310.70	9.9278666	10.2022449
52	84681.26	159207.83	9.9277873	10.2019644
51	84665.78	159105.05	9.9277079	10.2016840
50	84650.30	159002.38	9.9276285	10.2014036
49	84634.81	158899.79	9.9275490	10.2011233
48	84619.31	158797.30	9.9274695	10.2008431
47	84603.81	158694.91	9.9273899	10.2005630
46	84588.30	158592.61	9.9273103	10.2002830
45	84572.78	158490.41	9.9272306	10.2000030
44	84557.25	158388.30	9.9271509	10.1997231
43	84541.72	158286.28	9.9270711	10.1994433
42	84526.18	158184.36	9.9269913	10.1991635
41	84510.63	158082.53	9.9269114	10.1988839
40	84495.08	157980.79	9.9268314	10.1986043
39	84479.52	157879.15	9.9267514	10.1983248
38	84463.95	157777.60	9.9266714	10.1980454
37	84448.37	157676.15	9.9265913	10.1977660
36	84432.79	157574.79	9.9265112	10.1974867
35	84417.20	157473.52	9.9264310	10.1972075
34	84401.60	157372.34	9.9263507	10.1969284
33	84386.00	157271.26	9.9262704	10.1966494
32	84370.35	157170.26	9.9261901	10.1963704
31	84354.77	157069.36	9.9261096	10.1960915
30	84339.14	156968.56	9.9260292	10.1958127

Min.	Sinus	Tang.	Log. Sin.	Log. Tan
30	53729.96	63707.03	9.7302165	9.804187
31	53754.49	63747.93	9.7304148	9.804466
32	53779.02	63788.85	9.7306129	9.804744
33	53803.54	63829.78	9.7308109	9.805023
34	53828.06	63870.73	9.7310087	9.805301
35	53852.57	63911.69	9.7312064	9.805580
36	53877.08	63952.67	9.7314040	9.805858
37	53901.58	63993.66	9.7316015	9.806137
38	53926.08	64034.67	9.7317989	9.806415
39	53950.58	64075.69	9.7319961	9.806693
40	53975.07	64116.73	9.7321932	9.806971
41	53999.55	64157.79	9.7323902	9.807249
42	54024.03	64198.86	9.7325870	9.807527
43	54048.51	64239.95	9.7327837	9.807805
44	54072.98	64281.05	9.7329803	9.808082
45	54097.45	64322.16	9.7331768	9.808360
46	54121.91	64363.29	9.7333731	9.808638
47	54146.37	64404.44	9.7335693	9.808915
48	54170.82	64445.60	9.7337654	9.809193
49	54195.27	64486.78	9.7339614	9.809470
50	54219.71	64527.97	9.7341572	9.809748
51	54244.15	64569.18	9.7343529	9.810025
52	54268.59	64610.41	9.7345485	9.810302
53	54293.02	64651.65	9.7347440	9.810579
54	54317.44	64692.90	9.7349393	9.810856
55	54341.86	64734.17	9.7351345	9.811133
56	54366.28	64775.46	9.7353296	9.811410
57	54390.69	64816.76	9.7355246	9.811687
58	54415.10	64858.08	9.7357195	9.811964
59	54439.50	64899.41	9.7359142	9.812240
60	54463.90	64940.76	9.7361088	9.812517

57. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	84339.14	156968.56	9.9260292	10.1958127
29	84323.51	156867.84	9.9259487	10.1955339
28	84307.87	156767.22	9.9258681	10.1952553
27	84292.22	156666.69	9.9257875	10.1949767
26	84276.57	156566.25	9.9257069	10.1946981
25	84260.91	156465.90	9.9256261	10.1944197
24	84245.24	156365.64	9.9255454	10.1941413
23	84229.56	156265.48	9.9254646	10.1938630
22	84213.88	156165.40	9.9253837	10.1935848
21	84198.19	156065.42	9.9253028	10.1933067
20	84182.49	155965.52	9.9252218	10.1930286
19	84166.79	155865.72	9.9251408	10.1927506
18	84151.08	155766.01	9.9250597	10.1924727
17	84135.36	155666.39	9.9249786	10.1921948
16	84119.63	155566.85	9.9248974	10.1919171
15	84103.90	155467.41	9.9248161	10.1916394
14	84088.16	155368.06	9.9247349	10.1913617
13	84072.41	155268.80	9.9246535	10.1910842
12	84056.66	155169.63	9.9245721	10.1908067
11	84040.90	155070.54	9.9244907	10.1905293
10	84025.13	154971.55	9.9244092	10.1902520
9	84009.35	154872.64	9.9243277	10.1899747
8	83993.57	154773.83	9.9242461	10.1896975
7	83977.78	154675.10	9.9241644	10.1894204
6	83961.98	154576.46	9.9240827	10.1891434
5	83946.18	154477.92	9.9240010	10.1888664
4	83930.37	154379.46	9.9239191	10.1885895
3	83914.55	154281.08	9.9238373	10.1883127
2	83898.73	154182.80	9.9237554	10.1880359
1	83882.90	154084.60	9.9236734	10.1877592
0	83867.06	153986.50	9.9235914	10.1874826

Min.	33. Grad. Sinus	Tang.	Log. Sin.	Log. Tang.
0	54463.90	64940.76	9.7361088	9.8125174
1	54488.30	64982.12	9.7363032	9.8127939
2	54512.69	65023.50	9.7364976	9.8130704
3	54537.07	65064.90	9.7366918	9.8133468
4	54561.45	65106.31	9.7368859	9.8136231
5	54585.83	65147.74	9.7370799	9.8138993
6	54610.20	65189.18	9.7372737	9.8141755
7	54634.56	65230.64	9.7374675	9.8144516
8	54658.92	65272.11	9.7376611	9.8147277
9	54683.28	65313.60	9.7378546	9.8150036
10	54707.63	65355.11	9.7380479	9.8152795
11	54731.98	65396.63	9.7382412	9.8155554
12	54756.32	65438.17	9.7384343	9.8158311
13	54780.66	65479.72	9.7386273	9.8161068
14	54804.99	65521.29	9.7388201	9.8163824
15	54829.32	65562.87	9.7390129	9.8166580
16	54853.65	65604.47	9.7392055	9.8169335
17	54877.97	65646.09	9.7393980	9.8172089
18	54902.28	65687.72	9.7395904	9.8174842
19	54926.59	65729.37	9.7397827	9.8177595
20	54950.90	65771.03	9.7399748	9.8180347
21	54975.20	65812.71	9.7401668	9.8183098
22	54999.50	65854.41	9.7403587	9.8185849
23	55023.79	65896.12	9.7405505	9.8188599
24	55048.08	65937.85	9.7407421	9.819134
25	55072.36	65979.59	9.7409337	9.8194096
26	55096.64	66021.35	9.7411251	9.819684
27	55120.91	66063.13	9.7413164	9.819959
28	55145.48	66104.92	9.7415075	9.820233
29	55169.44	66146.73	9.7416986	9.820508
30	55193.70	66188.56	9.7418895	9.820782

56.Grad.

Min.	Sinus	Tang.	Log. Sin.	Log.Tang.
60	83867.06	153986.50	9.9235914	10.1874826
59	83851.21	153888.48	9.9235093	10.1872061
58	83835.36	153790.55	9.9234272	10.1869296
57	83819.50	153692.70	9.9233450	10.1866532
56	83803.63	153594.94	9.9232628	10.1863769
55	83787.75	153497.27	9.9231805	10.1861007
54	83771.87	153399.69	9.9230982	10.1858245
53	83755.98	153302.20	9.9230158	10.1855484
52	83740.08	153204.79	9.9229334	10.1852723
51	83724.18	153107.47	9.9228509	10.1849964
50	83708.27	153010.23	9.9227684	10.1847205
49	83692.35	152913.08	9.9226858	10.1844446
48	83676.43	152816.02	9.9226032	10.1841689
47	83660.50	152719.04	9.9225205	10.1838932
46	83644.56	152622.15	9.9224377	10.1836176
45	83628.61	152525.35	9.9223549	10.1833420
44	83612.66	152428.63	9.9222721	10.1830665
43	83596.70	152332.00	9.9221891	10.1827911
42	83580.73	152235.45	9.9221062	10.1825158
41	83564.76	152138.99	9.9220232	10.1822405
40	83548.78	152042.61	9.9219401	10.1819653
39	83532.79	151946.32	9.9218570	10.1816902
38	83516.80	151850.12	9.9217738	10.1814151
37	83500.80	151754.00	9.9216906	10.1811401
36	83484.79	151657.96	9.9216073	10.1808652
35	83468.77	151562.01	9.9215240	10.1805904
34	83452.75	151466.14	9.9214406	10.1803156
33	83436.72	151370.36	9.9213572	10.1800408
32	83420.68	151274.66	9.9212737	10.1797662
31	83404.63	151179.05	9.9211902	10.1794916
30	83388.58	151083.52	9.9211066	10.1792171

Min.	33. Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	55193.70	66188.56	9.7418895	9.8207829
31	55217.95	66230.40	9.7420803	9.8210574
32	55242.20	66272.26	9.7422710	9.8213317
33	55266.45	66314.13	9.7424616	9.8216060
34	55290.69	66356.02	9.7426520	9.8218803
35	55314.92	66397.92	9.7428423	9.8221545
36	55339.15	66439.84	9.7430325	9.8224286
37	55363.38	66481.78	9.7432226	9.8227026
38	55387.60	66523.73	9.7434126	9.8229766
39	55411.82	66565.70	9.7436024	9.8232505
40	55436.03	66607.69	9.7437921	9.8235244
41	55460.24	66649.69	9.7439817	9.8237981
42	55484.44	66691.71	9.7441712	9.8240719
43	55508.64	66733.75	9.7443606	9.8243455
44	55532.83	66775.80	9.7445498	9.8246191
45	55557.02	66817.87	9.7447390	9.8248926
46	55581.21	66859.95	9.7449280	9.8251660
47	55605.39	66902.05	9.7451169	9.8254394
48	55629.56	66944.17	9.7453056	9.8257127
49	55653.73	66986.30	9.7454943	9.8259860
50	55677.90	67028.45	9.7456828	9.8262592
51	55702.06	67070.62	9.7458712	9.8265323
52	55726.21	67112.80	9.7460595	9.8268053
53	55750.36	67155.00	9.7462477	9.8270783
54	55774.51	67197.21	9.7464358	9.8273513
55	55798.65	67239.44	9.7466237	9.8276241
56	55822.79	67281.69	9.7468115	9.8278969
57	55846.92	67323.96	9.7469992	9.8281696
58	55871.05	67366.24	9.7471868	9.8284423
59	55895.17	67408.54	9.7473743	9.8287149
60	55919.29	67450.85	9.7475617	9.8289874

56. Grad.

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	83388.58	151083.52	9.9211066	10.1792171
29	83372.52	150988.07	9.9210229	10.1789426
28	83356.45	150892.71	9.9209393	10.1786683
27	83340.38	150797.43	9.9208555	10.1783940
26	83324.30	150702.24	9.9207717	10.1781197
25	83308.21	150607.13	9.9206878	10.1778455
24	83292.12	150512.10	9.9206039	10.1775714
23	83276.02	150417.16	9.9205200	10.1772974
22	83259.91	150322.30	9.9204360	10.1770234
21	83243.80	150227.52	9.9203519	10.1767495
20	83227.68	150132.82	9.9202678	10.1764756
19	83211.55	150038.20	9.9201836	10.1762019
18	83195.41	149943.67	9.9200994	10.1759281
17	83179.27	149849.22	9.9200151	10.1756545
16	83163.12	149754.86	9.9199308	10.1753809
15	83146.96	149660.58	9.9198464	10.1751074
14	83130.79	149566.38	9.9197619	10.1748340
13	83114.62	149472.26	9.9196775	10.1745606
12	83098.44	149378.22	9.9195929	10.1742873
11	83082.26	149284.26	9.9195083	10.1740140
10	83066.07	149190.38	9.9194237	10.1737408
9	83049.87	149096.59	9.9193390	10.1734677
8	83033.66	149002.88	9.9192542	10.1731947
7	83017.45	148909.25	9.9191694	10.1729217
6	83001.23	148815.70	9.9190845	10.1726487
5	82985.00	148722.23	9.9189996	10.1723759
4	82968.76	148628.84	9.9189146	10.1721031
3	82952.52	148535.53	9.9188296	10.1718304
2	82936.27	148442.30	9.9187445	10.1715577
1	82920.02	148349.16	9.9186594	10.1712851
0	82903.76	148256.10	9.9185742	10.1710126

34. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
0	55919.29	67450.85	9.7475617	9.8289874
1	55943.40	67493.18	9.7477489	9.8292599
2	55967.51	67535.53	9.7479360	9.8295323
3	55991.61	67577.90	9.7481230	9.8298047
4	56015.71	67620.28	9.7483099	9.8300769
5	56039.81	67662.68	9.7484967	9.8303492
6	56063.90	67705.09	9.7486833	9.8306213
7	56087.98	67747.52	9.7488698	9.8308934
8	56112.06	67789.97	9.7490562	9.8311654
9	56136.14	67832.44	9.7492425	9.8314374
10	56160.21	67874.92	9.7494287	9.8317093
11	56184.28	67917.42	9.7496148	9.8319811
12	56208.34	67959.93	9.7498007	9.8322529
13	56232.39	68002.46	9.7499866	9.8325246
14	56256.44	68045.01	9.7501723	9.8327963
15	56280.49	68087.58	9.7503579	9.8330679
16	56304.53	68130.16	9.7505434	9.8333394
17	56328.57	68172.76	9.7507287	9.8336109
18	56352.60	68215.38	9.7509140	9.8338823
19	56376.63	68258.01	9.7510991	9.8341536
20	56400.65	68300.66	9.7512842	9.8344249
21	56424.67	68343.33	9.7514691	9.8346961
22	56448.69	68386.01	9.7516538	9.8349673
23	56472.70	68428.71	9.7518385	9.8352384
24	56496.70	68471.43	9.7520231	9.8355094
25	56520.70	68514.17	9.7522075	9.8357804
26	56544.69	68556.92	9.7523919	9.8360513
27	56568.68	68599.69	9.7525761	9.8363221
28	56592.67	68642.47	9.7527602	9.8365929
29	56616.65	68685.27	9.7529442	9.8368636
30	56640.62	68728.10	9.7531280	9.8371343

Min.	55. Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
60	82903.76	148256.10	9.9185742	10.1710126
59	82887.49	148163.11	9.9184890	10.1707401
58	82871.21	148070.21	9.9184037	10.1704677
57	82854.93	147977.38	9.9183183	10.1701953
56	82838.64	147884.63	9.9182329	10.1699231
55	82822.34	147791.97	9.9181475	10.1696508
54	82806.03	147699.38	9.9180620	10.1693787
53	82789.72	147606.88	9.9179764	10.1691066
52	82773.40	147514.45	9.9178908	10.1688346
51	82757.07	147422.10	9.9178051	10.1685626
50	82740.74	147329.83	9.9177194	10.1682907
49	82724.40	147237.64	9.9176336	10.1680189
48	82708.05	147145.53	9.9175478	10.1677471
47	82691.70	147053.50	9.9174619	10.1674754
46	82675.34	146961.55	9.9173760	10.1672037
45	82658.97	146869.67	9.9172900	10.1669321
44	82642.60	146777.87	9.9172040	10.1666606
43	82626.22	146686.16	9.9171179	10.1663891
42	82609.83	146594.52	9.9170317	10.1661177
41	82593.43	146502.96	9.9169455	10.1658464
40	82577.03	146411.47	9.9168593	10.1655751
39	82560.62	146320.07	9.9167730	10.1653039
38	82544.20	146228.74	9.9166866	10.1650327
37	82527.78	146137.49	9.9166002	10.1647616
36	82511.35	146046.32	9.9165137	10.1644906
35	82494.91	145955.22	9.9164272	10.1642196
34	82478.47	145864.20	9.9163406	10.1639487
33	82462.02	145773.26	9.9162539	10.1636779
32	82445.56	145682.40	9.9161673	10.1634071
31	82429.09	145591.61	9.9160805	10.1631364
30	82412.62	145500.90	9.9159937	10.1628657

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	56640.62	68728.10	9.7531280	9.8371343
31	56664.55	68770.94	9.7533118	9.8374049
32	56688.56	68813.79	9.7534954	9.8376755
33	56712.52	68856.66	9.7536790	9.8379460
34	56736.48	68899.55	9.7538624	9.8382164
35	56760.43	68942.46	9.7540457	9.8384867
36	56784.37	68985.38	9.7542288	9.8387571
37	56808.31	69028.32	9.7544119	9.8390273
38	56832.25	69071.28	9.7545949	9.8392975
39	56856.18	69114.25	9.7547777	9.8395676
40	56880.11	69157.24	9.7549604	9.8398377
41	56904.03	69200.25	9.7551431	9.8401077
42	56927.95	69243.28	9.7553256	9.8403776
43	56951.86	69286.33	9.7555080	9.8406475
44	56975.77	69329.39	9.7556902	9.8409174
45	56999.68	69372.47	9.7558724	9.8411871
46	57023.58	69415.57	9.7560544	9.8414569
47	57047.47	69458.68	9.7562364	9.8417265
48	57071.36	69501.81	9.7564182	9.8419961
49	57095.24	69544.96	9.7565999	9.8422657
50	57119.12	69588.13	9.7567815	9.8425351
51	57142.99	69631.31	9.7569630	9.8428046
52	57166.86	69674.51	9.7571444	9.8430739
53	57190.73	69717.73	9.7573256	9.8433432
54	57214.59	69760.97	9.7575068	9.8436125
55	57238.44	69804.22	9.7576878	9.8438817
56	57262.29	69847.49	9.7578687	9.8441508
57	57286.14	69890.78	9.7580495	9.8444199
58	57309.98	69934.09	9.7582302	9.8446889
59	57333.81	69977.41	9.7584108	9.8449579
60	57357.64	70020.75	9.7585913	9.8452268

Min.	55. Grad.			
	Sinus	Tang.	*Log.Sin.*	*Log.Tang.*
30	82412.62	145500.90	9.9159937	10.1628657
29	82396.14	145410.27	9.9159069	10.1625951
28	82379.65	145319.71	9.9158200	10.1623245
27	82363.16	145229.23	9.9157330	10.1620540
26	82346.66	145138.83	9.9156460	10.1617836
25	82330.15	145048.50	9.9155589	10.1615133
24	82313.64	144958.25	9.9154718	10.1612429
23	82297.12	144868.08	9.9153846	10.1609727
22	82280.59	144777.98	9.9152974	10.1607025
21	82264.05	144687.96	9.9152101	10.1604324
20	82247.51	144598.01	9.9151228	10.1601623
19	82230.96	144508.14	9.9150354	10.1598923
18	82214.40	144418.34	9.9149479	10.1596224
17	82197.84	144328.62	9.9148604	10.1593525
16	82181.27	144238.97	9.9147729	10.1590826
15	82164.69	144149.40	9.9146852	10.1588129
14	82148.11	144059.91	9.9145976	10.1585431
13	82131.52	143970.49	9.9145099	10.1582735
12	82114.92	143881.14	9.9144221	10.1580039
11	82098.31	143791.87	9.9143342	10.1577343
10	82081.70	143702.68	9.9142464	10.1574649
9	82065.08	143613.56	9.9141584	10.1571954
8	82048.46	143524.51	9.9140704	10.1569261
7	82031.83	143435.54	9.9139824	10.1566568
6	82015.19	143346.64	9.9138943	10.1563875
5	81998.54	143257.81	9.9138061	10.1561183
4	81981.89	143169.06	9.9137179	10.1558492
3	81965.23	143080.39	9.9136296	10.1555801
2	81948.56	142991.78	9.9135413	10.1553111
1	81931.89	142903.26	9.9134530	10.1550421
0	81915.21	142814.80	9.9133645	10.1547732

35. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	58070.30	71329.31	9.7639540	9.8532680
31	58093.98	71373.21	9.7641311	9.8535352
32	58117.65	71417.13	9.7643080	9.8538023
33	58141.32	71461.06	9.7644849	9.8540694
34	58164.98	71505.01	9.7646616	9.8543365
35	58188.64	71548.98	9.7648382	9.8546034
36	58212.30	71592.97	9.7650147	9.8548704
37	58235.95	71636.98	9.7651911	9.8551372
38	58259.59	71681.01	9.7653674	9.8554041
39	58283.23	71725.05	9.7655436	9.8556708
40	58306.87	71769.11	9.7657197	9.8559376
41	58330.50	71813.19	9.7658957	9.8562042
42	58354.12	71857.29	9.7660715	9.8564708
43	58377.74	71901.41	9.7662473	9.8567374
44	58401.36	71945.55	9.7664229	9.8570039
45	58424.97	71989.70	9.7665985	9.8572704
46	58448.57	72033.87	9.7667739	9.8575368
47	58472.17	72078.06	9.7669492	9.8578031
48	58495.77	72122.27	9.7671244	9.8580694
49	58519.36	72166.50	9.7672996	9.8583357
50	58542.94	72210.75	9.7674746	9.8586019
51	58566.52	72255.02	9.7676494	9.8588680
52	58590.10	72299.31	9.7678242	9.8591341
53	58613.67	72343.61	9.7679989	9.8594002
54	58637.24	72387.93	9.7681735	9.8596661
55	58660.80	72432.27	9.7683480	9.8599321
56	58684.35	72476.63	9.7685223	9.8601980
57	58707.90	72521.01	9.7686966	9.8604638
58	58731.45	72565.41	9.7688707	9.8607296
59	58754.99	72609.83	9.7690448	9.8609954
60	58778.53	72654.26	9.7692187	9.8612610

54. Grad.

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	81411.55	140194.83	9.9106860	10.1467320
29	81394.65	140108.60	9.9105959	10.1464643
28	81377.75	140022.45	9.9105057	10.1461977
27	81360.84	139936.36	9.9104155	10.1459306
26	81343.93	139850.34	9.9103251	10.1456635
25	81327.01	139764.40	9.9102348	10.1453966
24	81310.08	139678.52	9.9101444	10.1451296
23	81293.14	139592.72	9.9100539	10.1448628
22	81276.20	139506.98	9.9099634	10.1445959
21	81259.25	139421.31	9.9098728	10.1443292
20	81242.29	139335.71	9.9097821	10.1440624
19	81225.32	139250.18	9.9096915	10.1437958
18	81208.35	139164.73	9.9096007	10.1435292
17	81191.37	139079.34	9.9095099	10.1432626
16	81174.39	138994.01	9.9094190	10.1429961
15	81157.40	138908.76	9.9093281	10.1427296
14	81140.40	138823.58	9.9092371	10.1424632
13	81123.39	138738.46	9.9091461	10.1421969
12	81106.38	138653.42	9.9090550	10.1419306
11	81089.36	138568.44	9.9089636	10.1416643
10	81072.33	138483.53	9.9088727	10.1413981
9	81055.30	138398.69	9.9087814	10.1411320
8	81038.26	138313.92	9.9086901	10.1408659
7	81021.21	138229.22	9.9085988	10.1405998
6	81004.16	138144.58	9.9085073	10.1403339
5	80987.10	138060.01	9.9084159	10.1400679
4	80970.03	137975.51	9.9083243	10.1398020
3	80952.96	137891.08	9.9082327	10.1395362
2	80935.88	137806.72	9.9081411	10.1392704
1	80918.79	137722.42	9.9080494	10.1390046
0	80901.70	137638.19	9.9079576	10.1387390

36. Grad.

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
0	58778.53	72654.26	9.7692187	9.8612610
1	58802.06	72698.71	9.7693925	9.8615267
2	58825.58	72743.18	9.7695662	9.8617923
3	58849.10	72787.67	9.7697398	9.8620578
4	58872.62	72832.18	9.7699134	9.8623233
5	58896.13	72876.71	9.7700868	9.8625887
6	58919.64	72921.26	9.7702601	9.8628541
7	58943.14	72965.82	9.7704332	9.8631195
8	58966.63	73010.40	9.7706063	9.8633848
9	58990.12	73055.01	9.7707793	9.8636500
10	59013.61	73099.63	9.7709522	9.8639152
11	59037.09	73144.27	9.7711249	9.8641803
12	59060.57	73188.94	9.7712976	9.8644454
13	59084.04	73233.62	9.7714702	9.8647105
14	59107.50	73278.31	9.7716426	9.8649755
15	59130.96	73323.03	9.7718150	9.8652404
16	59154.42	73367.77	9.7719872	9.8655053
17	59177.87	73412.53	9.7721593	9.8657702
18	59201.32	73457.30	9.7723314	9.8660350
19	59224.76	73502.10	9.7725033	9.8662997
20	59248.19	73546.91	9.7726751	9.8665644
21	59271.62	73591.74	9.7728468	9.8668291
22	59295.05	73636.60	9.7730185	9.8670937
23	59318.47	73681.47	9.7731900	9.8673583
24	59341.89	73726.36	9.7733614	9.8676228
25	59365.30	73771.27	9.7735327	9.8678873
26	59388.71	73816.20	9.7737039	9.8681517
27	59412.11	73861.15	9.7738749	9.8684160
28	59435.50	73906.11	9.7740459	9.8686804
29	59458.89	73951.10	9.7742168	9.8689446
30	59482.28	73996.11	9.7743876	9.8692089

53. Grad.

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
60	80901.70	137638.19	9.9079576	10.1387390
59	80884.60	137554.07	9.9078658	10.1384733
58	80867.49	137469.94	9.9077740	10.1382077
57	80850.37	137385.91	9.9076820	10.1379423
56	80833.25	137301.95	9.9075901	10.1376767
55	80816.12	137218.05	9.9074980	10.1374113
54	80798.99	137134.23	9.9074059	10.1371459
53	80781.85	137050.47	9.9073138	10.1368805
52	80764.70	136966.78	9.9072216	10.1366152
51	80747.54	136883.15	9.9071293	10.1363500
50	80730.38	136799.59	9.9070370	10.1360848
49	80713.21	136716.10	9.9069446	10.1358197
48	80696.03	136632.67	9.9068522	10.1355546
47	80678.85	136549.31	9.9067597	10.1352895
46	80661.66	136466.02	9.9066671	10.1350245
45	80644.46	136382.79	9.9065745	10.1347596
44	80627.26	136299.63	9.9064819	10.1344947
43	80610.05	136216.53	9.9063892	10.1342298
42	80592.83	136133.50	9.9062964	10.1339650
41	80575.60	136050.54	9.9062036	10.1337003
40	80558.37	135967.64	9.9061107	10.1334356
39	80541.13	135884.81	9.9060177	10.1331709
38	80523.89	135802.04	9.9059247	10.1329063
37	80506.64	135719.34	9.9058317	10.1326417
36	80489.38	135636.70	9.9057386	10.1323772
35	80472.11	135554.13	9.9056454	10.1321127
34	80454.84	135471.62	9.9055522	10.1318483
33	80437.56	135389.18	9.9054589	10.1315840
32	80420.28	135306.80	9.9053656	10.1313196
31	80402.99	135224.49	9.9052722	10.1310554
30	80385.69	135142.24	9.9051787	10.1307911

36. Grad.

Min.	Sinus.	Tang.	Log. Sin.	Log. Tang.
30	59482.28	73996.11	9.7743876	9.8692089
31	59505.66	74041.14	9.7745583	9.8694731
32	59529.03	74086.18	9.7747288	9.8697372
33	59552.40	74131.24	9.7748993	9.8700013
34	59575.77	74176.33	9.7750697	9.8702653
35	59599.13	74221.43	9.7752399	9.8705293
36	59622.49	74266.55	9.7754101	9.8707933
37	59645.84	74311.70	9.7755801	9.8710572
38	59669.18	74356.86	9.7757501	9.8713210
39	59692.52	74402.04	9.7759199	9.8715848
40	59715.86	74447.24	9.7760897	9.8718486
41	59739.19	74492.46	9.7762593	9.8721123
42	59762.51	74537.70	9.7764289	9.8723760
43	59785.83	74582.96	9.7765983	9.8726396
44	59809.15	74628.24	9.7767676	9.8729032
45	59832.46	74673.54	9.7769369	9.8731668
46	59855.76	74718.86	9.7771060	9.8734302
47	59879.06	74764.20	9.7772750	9.8736937
48	59902.36	74809.56	9.7774439	9.8739571
49	59925.65	74854.94	9.7776128	9.8742204
50	59948.93	74900.33	9.7777815	9.8744838
51	59972.21	74945.75	9.7779501	9.8747470
52	59995.49	74991.19	9.7781186	9.8750102
53	60018.76	75036.65	9.7782870	9.8752734
54	60042.02	75082.12	9.7784553	9.8755365
55	60065.28	75127.62	9.7786235	9.8757996
56	60088.53	75173.14	9.7787916	9.8760627
57	60111.78	75218.67	9.7789596	9.8763257
58	60135.03	75264.23	9.7791275	9.8765886
59	60158.27	75309.81	9.7792953	9.8768515
60	60181.59	75355.40	9.7794630	9.8771144

53. Grad.

Min.	Sinus	Tang	Log. Sin.	Log. Tang.
30	80385.69	135142.24	9.9051787	10.1307911
29	80368.38	135060.06	9.9050852	10.1305269
28	80351.07	134977.94	9.9049916	10.1302628
27	80333.75	134895.89	9.9048980	10.1299987
26	80316.42	134813.90	9.9048043	10.1297347
25	80299.09	134731.97	9.9047106	10.1294707
24	80281.75	134650.11	9.9046168	10.1292067
23	80264.40	134568.32	9.9045230	10.1289428
22	80247.05	134486.58	9.9044291	10.1286790
21	80229.69	134404.92	9.9043351	10.1284152
20	80212.33	134323.31	9.9042411	10.1281514
19	80194.94	134241.77	9.9041470	10.1278877
18	80177.56	134160.29	9.9040529	10.1276240
17	80160.17	134078.88	9.9039587	10.1273604
16	80142.78	133997.53	9.9038644	10.1270968
15	80125.38	133916.24	9.9037701	10.1268332
14	80107.97	133835.02	9.9036757	10.1265698
13	80090.56	133753.86	9.9035813	10.1263063
12	80073.14	133672.76	9.9034868	10.1260429
11	80055.71	133591.72	9.9033923	10.1257796
10	80038.27	133510.75	9.9032977	10.1255162
9	80020.83	133429.84	9.9032031	10.1252530
8	80003.38	133349.00	9.9031084	10.1249898
7	79985.93	133268.22	9.9030136	10.1247266
6	79968.47	133187.49	9.9029188	10.1244635
5	79951.00	133106.84	9.9028239	10.1242004
4	79933.52	133026.24	9.9027289	10.1239373
3	79916.04	132945.71	9.9026339	10.1236743
2	79898.55	132865.24	9.9025389	10.1234114
1	79881.05	132784.83	9.9024438	10.1231485
0	79863.55	132704.48	9.9023486	10.1228856

37. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
0	60181.50	75355.40	9.7794630	9.8771144
1	60204.73	75401.02	9.7796306	9.8773772
2	60227.95	75446.66	9.7797981	9.8776400
3	60251.17	75492.32	9.7799655	9.8779027
4	60274.39	75537.99	9.7801328	9.8781654
5	60297.60	75583.69	9.7803000	9.8784281
6	60320.80	75629.41	9.7804671	9.8786907
7	60344.00	75675.14	9.7806341	9.8789533
8	60367.19	75720.90	9.7808010	9.8792158
9	60390.38	75766.68	9.7809677	9.8794782
10	60413.56	75812.48	9.7811344	9.8797407
11	60436.74	75858.29	9.7813010	9.8800031
12	60459.91	75904.13	9.7814675	9.8802654
13	60483.08	75949.99	9.7816339	9.8805277
14	60506.24	75995.87	9.7818002	9.8807900
15	60529.40	76041.77	9.7819664	9.8810522
16	60552.55	76087.69	9.7821324	9.8813144
17	60575.70	76133.63	9.7822984	9.8815765
18	60598.84	76179.59	9.7824643	9.8818386
19	60621.98	76225.57	9.7826301	9.8821007
20	60645.11	76271.57	9.7827958	9.8823627
21	60668.23	76317.59	9.7829614	9.8826246
22	60691.35	76363.63	9.7831268	9.8828866
23	60714.47	76409.69	9.7832922	9.8831484
24	60737.58	76455.77	9.7834575	9.8834103
25	60760.69	76501.88	9.7836227	9.8836721
26	60783.79	76548.00	9.7837878	9.8839338
27	60806.89	76594.14	9.7839528	9.8841956
28	60829.98	76640.31	9.7841177	9.8844572
29	60853.06	76686.49	9.7842824	9.8847189
30	60876.14	76732.70	9.7844471	9.8849805

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
	52.Grad.			
60	79863.55	132704.48	9.9023481	10.1228856
59	79846.04	132624.20	9.9022534	10.1226228
58	79828.52	132543.97	9.9021581	10.1223600
57	79811.00	132463.81	9.9020628	10.1220973
56	79793.47	132383.71	9.9019674	10.1218346
55	79775.93	132303.68	9.9018719	10.1215719
54	79758.39	132223.70	9.9017764	10.1213093
53	79740.84	132143.79	9.9016808	10.1210467
52	79723.28	132063.93	9.9015852	10.1207842
51	79705.72	131984.14	9.9014895	10.1205218
50	79688.15	131904.41	9.9013938	10.1202593
49	79670.57	131824.74	9.9012980	10.1199969
48	79652.99	131745.13	9.9012021	10.1197346
47	79635.40	131665.59	9.9011062	10.1194723
46	79617.80	131586.10	9.9010102	10.1192100
45	79600.20	131506.68	9.9009142	10.1189478
44	79582.59	131427.31	9.9008181	10.1186856
43	79564.97	131348.01	9.9007219	10.1184235
42	79547.35	131268.76	9.9006257	10.1181614
41	79529.72	131189.58	9.9005294	10.1178993
40	79512.08	131110.46	9.9004331	10.1176373
39	79494.43	131031.40	9.9003367	10.1173754
38	79476.78	130952.39	9.9002403	10.1171134
37	79459.12	130873.45	9.9001438	10.1168516
36	79441.46	130794.57	9.9000472	10.1165897
35	79423.79	130715.75	9.8999506	10.1163279
34	79406.11	130636.99	9.8998539	10.1160662
33	79388.43	130558.28	9.8997572	10.1158044
32	79370.74	130479.64	9.8996604	10.1155428
31	79353.04	130401.06	9.8995636	10.1152811
30	79335.33	130322.54	9.8994667	10.1150195

37. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang
30	60876.14	76732.70	9.7844471	9.8849805
31	60899.22	76778.93	9.7846117	9.8852420
32	60922.29	76825.17	9.7847762	9.8855035
33	60945.35	76871.44	9.7849406	9.8857650
34	60968.41	76917.73	9.7851049	9.8860264
35	60991.47	76964.04	9.7852691	9.8862878
36	61014.52	77010.37	9.7854332	9.8865492
37	61037.56	77056.72	9.7855972	9.8868105
38	61060.60	77103.09	9.7857611	9.8870718
39	61083.63	77149.48	9.7859249	9.8873330
40	61106.66	77195.89	9.7860886	9.8875942
41	61129.68	77242.33	9.7862522	9.8878554
42	61152.70	77288.79	9.7864157	9.8881165
43	61175.72	77335.26	9.7865791	9.8883775
44	61198.73	77381.75	9.7867424	9.8886386
45	61221.73	77428.27	9.7869056	9.8888996
46	61244.73	77474.81	9.7870687	9.8891605
47	61267.72	77521.37	9.7872317	9.8894214
48	61290.71	77567.95	9.7873946	9.8896823
49	61313.69	77614.55	9.7875574	9.8899432
50	61336.66	77661.17	9.7877202	9.8902040
51	61359.63	77707.82	9.7878828	9.8904647
52	61382.60	77754.48	9.7880453	9.8907254
53	61405.56	77801.17	9.7882077	9.8909861
54	61428.52	77847.88	9.7883701	9.8912468
55	61451.47	77894.60	9.7885323	9.8915074
56	61474.42	77941.35	9.7886944	9.8917679
57	61497.36	77988.12	9.7888565	9.8920285
58	61520.29	78034.92	9.7890184	9.8922890
59	61543.22	78081.73	9.7891802	9.8925494
60	61566.15	78128.56	9.7893420	9.8928098

52. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	79335.33	130322.54	9.8994667	10.1150195
29	79317.62	130244.07	9.8993697	10.1147580
28	79299.90	130165.67	9.8992727	10.1144965
27	79282.18	130087.32	9.8991756	10.1142350
26	79264.45	130009.04	9.8990784	10.1139736
25	79246.71	129930.81	9.8989812	10.1137122
24	79228.96	129852.65	9.8988840	10.1134508
23	79211.21	129774.54	9.8987867	10.1131895
22	79193.45	129696.49	9.8986893	10.1129282
21	79175.69	129618.50	9.8985919	10.1126670
20	79157.92	129540.57	9.8984944	10.1124058
19	79140.14	129462.69	9.8983968	10.1121446
18	79122.35	129384.88	9.8982992	10.1118835
17	79104.56	129307.12	9.8982015	10.1116225
16	79086.76	129229.43	9.8981038	10.1113614
15	79068.96	129151.79	9.8980060	10.1111004
14	79051.15	129074.21	9.8979082	10.1108395
13	79033.33	128996.69	9.8978103	10.1105786
12	79015.50	128919.22	9.8977123	10.1103177
11	78997.67	128841.82	9.8976143	10.1100568
10	78979.83	128764.47	9.8975162	10.1097960
9	78961.98	128687.18	9.8974181	10.1095353
8	78944.13	128609.95	9.8973199	10.1092746
7	78926.27	128532.77	9.8972216	10.1090139
6	78908.41	128455.66	9.8971233	10.1087532
5	78890.54	128378.60	9.8970249	10.1084926
4	78872.66	128301.60	9.8969265	10.1082321
3	78854.77	128224.66	9.8968280	10.1079715
2	78836.88	128147.76	9.8967294	10.1077110
1	78818.98	128070.93	9.8966308	10.1074506
0	78801.07	127994.16	9.8965321	10.1071902

Min.	38.Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
0	61566.15	78128.56	9.7893420	9.8928098
1	61589.07	78175.42	9.7895036	9.8930702
2	61611.98	78222.29	9.7896652	9.8933306
3	61634.89	78269.19	9.7898266	9.8935909
4	61657.79	78316.11	9.7899880	9.8938511
5	61680.69	78363.05	9.7901493	9.8941114
6	61703.59	78410.02	9.7903104	9.8943715
7	61726.48	78457.00	9.7904715	9.8946317
8	61749.36	78504.00	9.7906325	9.8948918
9	61772.24	78551.03	9.7907933	9.8951519
10	61795.11	78598.08	9.7909541	9.8954119
11	61817.98	78645.15	9.7911148	9.8956719
12	61840.84	78692.24	9.7912754	9.8959319
13	61863.70	78739.35	9.7914359	9.8961918
14	61886.55	78786.49	9.7915963	9.8964517
15	61909.40	78833.64	9.7917566	9.8967116
16	61932.24	78880.82	9.7919168	9.8969714
17	61955.07	78928.02	9.7920769	9.8972312
18	61977.90	78975.24	9.7922369	9.8974910
19	62000.73	79022.48	9.7923968	9.8977507
20	62023.55	79069.75	9.7925566	9.8980104
21	62046.36	79117.03	9.7927163	9.8982700
22	62069.17	79164.34	9.7928760	9.8985296
23	62091.98	79211.67	9.7930355	9.8987892
24	62114.78	79259.02	9.7931949	9.8990487
25	62137.57	79306.40	9.7933543	9.8993082
26	62160.36	79353.79	9.7935135	9.8995677
27	62183.14	79401.21	9.7936727	9.8998271
28	62205.92	79448.65	9.7938317	9.9000865
29	62228.69	79496.11	9.7939907	9.9003459
30	62251.46	79543.59	9.7941496	9.9006052

51. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
60	78801.07	127994.16	9.8965321	10.1071902
59	78783.16	127917.45	9.8964334	10.1069298
58	78765.24	127840.79	9.8963346	10.1066694
57	78747.32	127764.19	9.8962358	10.1064091
56	78729.39	127687.64	9.8961369	10.1061489
55	78711.45	127611.16	9.8960379	10.1058886
54	78693.50	127534.73	9.8959389	10.1056285
53	78675.55	127458.36	9.8958398	10.1053683
52	78657.59	127382.04	9.8957406	10.1051082
51	78639.62	127305.78	9.8956414	10.1048481
50	78621.65	127229.57	9.8955422	10.1045881
49	78603.67	127153.42	9.8954429	10.1043281
48	78585.69	127077.33	9.8953435	10.1040681
47	78567.70	127001.30	9.8952440	10.1038082
46	78549.70	126925.32	9.8951445	10.1035483
45	78531.69	126849.39	9.8950450	10.1032884
44	78513.68	126773.53	9.8949453	10.1030286
43	78495.66	126697.72	9.8948457	10.1027688
42	78477.64	126621.96	9.8947459	10.1025090
41	78459.61	126546.26	9.8946461	10.1022493
40	78441.57	126470.62	9.8945463	10.1019896
39	78423.52	126395.03	9.8944463	10.1017300
38	78405.47	126319.50	9.8943464	10.1014704
37	78387.41	126244.02	9.8942463	10.1012108
36	78369.35	126168.60	9.8941462	10.1009513
35	78351.28	126093.23	9.8940461	10.1006918
34	78333.20	126017.92	9.8939458	10.1004323
33	78315.11	125942.67	9.8938456	10.1001729
32	78297.02	125867.47	9.8937452	10.0999135
31	78278.92	125792.32	9.8936448	10.0996541
30	78260.82	125717.23	9.8935444	10.0993948

Min.	38, Grad,			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	62251.46	79543.59	9.7941496	9.9006052
31	62274.22	79591.10	9.7943083	9.9008645
32	62296.98	79638.62	9.7944670	9.9011237
33	62319.73	79686.17	9.7946256	9.9013830
34	62342.48	79733.74	9.7947841	9.9016422
35	62365.22	79781.34	9.7949425	9.9019013
36	62387.96	79828.95	9.7951008	9.9021604
37	62410.69	79876.59	9.7952590	9.9024195
38	62433.42	79924.25	9.7954171	9.9026786
39	62456.14	79971.93	9.7955751	9.9029376
40	62478.85	80019.63	9.7957330	9.9031966
41	62501.56	80067.36	9.7958909	9.9034555
42	62524.26	80115.11	9.7960486	9.9037144
43	62546.96	80162.88	9.7962062	9.9039733
44	62569.66	80210.67	9.7963638	9.9042321
45	62592.35	80258.48	9.7965212	9.9044910
46	62615.03	80306.32	9.7966786	9.9047497
47	62637.71	80354.18	9.7968359	9.9050085
48	62660.38	80402.06	9.7969930	9.9052672
49	62683.05	80449.97	9.7971501	9.9055259
50	62705.71	80497.90	9.7973071	9.9057845
51	62728.37	80545.85	9.7974640	9.9060431
52	62751.02	80593.82	9.7976208	9.9063017
53	62773.66	80641.81	9.7977775	9.9065603
54	62796.30	80689.83	9.7979341	9.9068188
55	62818.94	80737.87	9.7980906	9.9070773
56	62841.57	80785.93	9.7982470	9.9073357
57	62864.20	80834.01	9.7984034	9.9075941
58	62886.82	80882.12	9.7985596	9.9078525
59	62909.43	80930.25	9.7987158	9.9081109
60	62932.04	80978.40	9.7988718	9.9083692

51.Grad.

Min.	Sinus	Tang.	Log.Sin.	Log. Tang.
30	78260.82	125717.23	9.8935444	10.0993948
29	78242.71	125642.19	9.8934439	10.0991355
28	78224.59	125567.21	9.8933433	10.0988763
27	78206.46	125492.29	9.8932426	10.0986170
26	78188.33	125417.42	9.8931419	10.0983578
25	78170.19	125342.60	9.8930412	10.0980987
24	78152.05	125267.84	9.8929404	10.0978396
23	78133.90	125193.13	9.8928395	10.0975805
22	78115.74	125118.48	9.8927375	10.0973214
21	78097.57	125043.88	9.8926375	10.0970624
20	78079.40	124969.33	9.8925365	10.0968034
19	78061.22	124894.84	9.8924354	10.0965445
18	78043.04	124820.40	9.8923342	10.0962856
17	78024.85	124746.02	9.8922329	10.0960267
16	78006.65	124671.69	9.8921316	10.0957679
15	77988.45	124597.42	9.8920303	10.0955090
14	77970.24	124523.20	9.8919289	10.0952503
13	77952.02	124449.03	9.8918274	10.0949915
12	77933.80	124374.92	9.8917258	10.0947328
11	77915.57	124300.86	9.8916242	10.0944741
10	77897.33	124226.85	9.8915226	10.0942155
9	77879.08	124152.90	9.8914208	10.0939569
8	77860.83	124079 00	9.8913191	10.0936983
7	77842.57	124005.15	9.8912172	10.0934397
6	77824.31	123931.36	9.8911153	10.0931812
5	77806.04	123857.62	9.8910133	10.0929227
4	77787.77	123783.93	9.8909113	10.0926643
3	77769.49	123710.30	9.8908092	10.0924059
2	77751.20	123636.72	9.8907071	10.0921475
1	77732.90	123563.19	9.8906049	10.0918891
0	77714.60	123489.72	9.8905026	10.0916308

39. Grad,

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
0	62932.04	80978.40	9.7988718	9.9083692
1	62954.64	81026.58	9.7990278	9.9086275
2	62977.24	81074.78	9.7991836	9.9088858
3	62999.83	81123.00	9.7993394	9.9091440
4	63022.42	81171.24	9.7994951	9.9094022
5	63045.00	81219.51	9.7996507	9.9096603
6	63067.58	81267.80	9.7998062	9.9099185
7	63090.15	81316.11	9.7999616	9.9101766
8	63112.72	81364.44	9.8001169	9.9104347
9	63135.28	81412.80	9.8002721	9.9106927
10	63157.84	81461.18	9.8004272	9.9109507
11	63180.39	81509.58	9.8005823	9.9112087
12	63202.93	81558.01	9.8007372	9.9114666
13	63225.47	81606.46	9.8008921	9.9117245
14	63248.00	81654.93	9.8010468	9.9119824
15	63270.53	81703.43	9.8012015	9.9122403
16	63293.05	81751.95	9.8013561	9.9124981
17	63315.57	81800.49	9.8015106	9.9127559
18	63338.08	81849.05	9.8016649	9.9130137
19	63360.59	81897.64	9.8018192	9.9132714
20	63383.09	81946.25	9.8019735	9.9135291
21	63405.59	81994.88	9.8021276	9.9137868
22	63428.08	82043.54	9.8022816	9.9140444
23	63450.57	82092.22	9.8024355	9.9143020
24	63473.05	82140.93	9.8025894	9.9145596
25	63495.53	82189.65	9.8027431	9.9148171
26	63518.00	82238.40	9.8028968	9.9150747
27	63540.46	82287.18	9.8030504	9.9153322
28	63562.92	82335.97	9.8032038	9.9155896
29	63585.37	82384.79	9.8033572	9.9158471
30	63607.82	82433.64	9.8035105	6.9161045

50. Grad.

Min.	Sinus	Tang	Log. Sin.	Log. Tang.
60	77714.60	123489.72	9.8905026	10.0916308
59	77696.29	123416.29	9.8904003	10.0913725
58	77677.97	123342.92	9.8902979	10.0911142
57	77659.65	123269.61	9.8901954	10.0908560
56	77641.32	123196.34	9.8900929	10.0905978
55	77622.98	123123.13	9.8899903	10.0903397
54	77604.64	123049.97	9.8898877	10.0900815
53	77586.29	122976.87	9.8897850	10.0898234
52	77567.94	122903.81	9.8896822	10.0895653
51	77549.58	122830.81	9.8895794	10.0893073
50	77531.21	122757.86	9.8894765	10.0890493
49	77512.83	122684.96	9.8893736	10.0887913
48	77494.45	122612.11	9.8892706	10.0885334
47	77476.06	122539.32	9.8891675	10.0882755
46	77457.67	122466.58	9.8890644	10.0880176
45	77439.27	122393.89	9.8889612	10.0877597
44	77420.86	122321.25	9.8888580	10.0875019
43	77402.44	122248.66	9.8887547	10.0872441
42	77384.02	122176.13	9.8886513	10.0869863
41	77365.59	122103.64	9.8885479	10.0867286
40	77347.16	122031.21	9.8884444	10.0864709
39	77328.72	121958.83	9.8883408	10.0862132
38	77310.27	121886.50	9.8882372	10.0859556
37	77291.82	121814.22	9.8881335	10.0856980
36	77273.36	121741.99	9.8880298	10.0854404
35	77254.89	121669.82	9.8879260	10.0851829
34	77236.42	121597.69	9.8878221	10.0849253
33	77217.94	121525.62	9.8877182	10.0846678
32	77199.45	121453.59	9.8876142	10.0844104
31	77180.96	121381.62	9.8875102	10.0841529
30	77162.46	121309.70	9.8874061	10.0838955

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	63607.82	82433.64	9.8035105	9.9161045
31	63630.26	82482.51	9.8036637	9.9163618
32	63652.70	82531.40	9.8038168	9.9166192
33	63675.13	82580.31	9.8039699	9.9168765
34	63697.56	82629.25	9.8041228	9.9171338
35	63719.98	82678.21	9.8042757	9.9173911
36	63742.40	82727.19	9.8 44284	9.9176483
37	63764.81	82776.20	9.8045811	9.9179055
38	63787.21	82825.23	9.8047336	9.9181627
39	63809.61	82874.29	9.8048861	9.9184198
40	63832.01	82923.37	9.8050385	9.9186769
41	63854.40	82972.47	9.8051908	9.9189340
42	63876.78	83021.60	9.8053430	9.9191911
43	63899.16	83070.75	9.8054951	9.9194481
44	63921.53	83119.92	9.8056472	9.9197051
45	63943.90	83169.12	9.8057991	9.9199621
46	63966.26	83218.34	9.8059510	9.9202191
47	63988.62	83267.59	9.8061027	9.9204760
48	64010.97	83316.86	9.8062544	9.9207329
49	64033.32	83366.15	9.8064060	9.9209898
50	64055.66	83415.47	9.8065575	9.9212466
51	64077.99	83464.81	9.8067089	9.9215034
52	64100.32	83514.18	9.8068602	9.9217602
53	64122.64	83563.57	9.8070114	9.9220170
54	64144.96	83612.98	9.8071626	9.9222737
55	64167.27	83662.42	9.8073136	9.9225304
56	64189.58	83711.88	9.8074646	9.9227871
57	64211.88	83761.36	9.8076154	9.9230437
58	64234.18	83810.87	9.8077662	9.9233004
59	64256.47	83860.40	9.8079169	9.9235570
60	64278.76	83909.96	9.8080675	9.9238135

Min.	50.Grad.			
	Sinus	Tang.	*Log.Sin.*	*Log.Tang.*
30	77162.46	121309.70	9.8874061	10.0838955
29	77143.95	121237.83	9.8873019	10.0836382
28	77125.44	121166.01	9.8871977	10.0833808
27	77106.92	121094.24	9.8870934	10.0831235
26	77088.39	121022.52	9.8869890	10.0828662
25	77069.86	120950.85	9.8868846	10.0826089
24	77051.32	120879.23	9.8867801	10.0823517
23	77032.78	120807.67	9.8866756	10.0820945
22	77014.23	120736.15	9.8865710	10.0818373
21	76995.67	120664.68	9.8864663	10.0815802
20	76977.10	120593.27	9.8863616	10.0813231
19	76958.53	120521.90	9.8862568	10.0810660
18	76939.95	120450.58	9.8861519	10.0808089
17	76921.37	120379.31	9.8860470	10.0805519
16	76902.78	120308.10	9.8859420	10.0802949
15	76884.18	120236.93	9.8858370	10.0800379
14	76865.58	120165.81	9.8857319	10.0797809
13	76846.97	120094.75	9.8856267	10.0795240
12	76828.35	120023.73	9.8855215	10.0792671
11	76809.73	119952.76	9.8854162	10.0790102
10	76791.10	119881.84	9.8853109	10.0787534
9	76772.46	119810.97	9.8852055	10.0784966
8	76753.82	119740.15	9.8851000	10.0782398
7	76735.17	119669.38	9.8849945	10.0779830
6	76716.51	119598.66	9.8848889	10.0777263
5	76697.85	119527.99	9.8847832	10.0774696
4	76679.18	119457.36	9.8846775	10.0772129
3	76660.51	119386.79	9.8845717	10.0769563
2	76641.83	119316.26	9.8844659	10.0766996
1	76623.14	119245.79	9.8843599	10.0764430
0	76604.44	119175.36	9.8842540	10.0761865

Min.	40 Grad.			
	Sinus	Tang.	*Log.Sin.*	*Log.Tang.*
0	64278.76	83909.96	9.8080675	9.9238135
1	64301.04	83959.54	9.8082180	9.9240701
2	64323.32	84009.15	9.8083684	9.9243266
3	64345.59	84058.78	9.8085188	9.9245831
4	64367.85	84108.44	9.8086690	9.9248396
5	64390.11	84158.12	9.8088192	9.9250960
6	64412.36	84207.82	9.8089692	9.9253524
7	64434.61	84257.55	9.8091192	9.9256088
8	64456.85	84307.30	9.8092691	9.9258652
9	64479.09	84357.08	9.8094189	9.9261215
10	64501.32	84406.88	9.8095686	9.9263778
11	64523.55	84456.70	9.8097182	9.9266341
12	64545.77	84506.55	9.8098678	9.9268904
13	64567.98	84556.43	9.8100172	9.9271466
14	64590.19	84606.33	9.8101666	9.9274028
15	64612.40	84656.25	9.8103159	9.9276590
16	64634.60	84706.20	9.8104650	9.9279152
17	64656.79	84756.17	9.8106141	9.9281713
18	64678.98	84806.17	9.8107631	9.9284274
19	64701.16	84856.19	9.8109121	9.9286835
20	64723.34	84906.24	9.8110609	9.9289396
21	64745.51	84956.31	9.8112096	9.9291956
22	64767.67	85006.40	9.8113583	9.9294516
23	64789.83	85056.52	9.8115069	9.9297076
24	64811.99	85106.67	9.8116554	9.9299636
25	64834.14	85156.84	9.8118038	9.9302195
26	64856.28	85207.04	9.8119521	9.9304755
27	64878.42	85257.26	9.8121003	9.9307314
28	64900.55	85307.50	9.8122484	9.9309872
29	64922.68	85357.77	9.8123965	9.9312431
30	64944.80	85408.07	9.8125444	9.9314989

49. Grad.

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
60	76604.44	119175.36	9.8842540	10.0761865
59	76585.74	119104.98	9.8841479	10.0752999
58	76567.03	119034.65	9.8840418	10.0756734
57	76548.32	118964.37	9.8839357	10.0754169
56	76529.60	118894.14	9.8838294	10.0751604
55	76510.87	118823.95	9.8837232	10.0749040
54	76492.14	118753.82	9.8836168	10.0746476
53	76473.40	118683.73	9.8835104	10.0743912
52	76454.65	118613.69	9.8834039	10.0741348
51	76435.90	118543.70	9.8832974	10.0738785
50	76417.14	118473.76	9.8831908	10.0736222
49	76398.37	118403.87	9.8830841	10.0733659
48	76379.60	118334.02	9.8829774	10.0731096
47	76360.82	118264.22	9.8828706	10.0728534
46	76342.04	118194.47	9.8827638	10.0725972
45	76323.25	118124.77	9.8826568	10.0723410
44	76304.45	118055.12	9.8825499	10.0720848
43	76285.64	117985.51	9.8824428	10.0718287
42	76266.83	117915.95	9.8823357	10.0715726
41	76248.01	117846.44	9.8822285	10.0713165
40	76229.19	117776.98	9.8821213	10.0710604
39	76210.36	117707.56	9.8820140	10.0708044
38	76191.52	117638.20	9.8819067	10.0705484
37	76172.68	117568.88	9.8817992	10.0702924
36	76153.83	117499.60	9.8816918	10.0700364
35	76134.97	117430.38	9.8815842	10.0697805
34	76116.11	117361.20	9.8814766	10.0695245
33	76097.24	117292.07	9.8813689	10.0692686
32	76078.37	117222.98	9.8812612	10.0690128
31	76059.49	117153.95	9.8811534	10.0687569
35	76040.60	117084.96	9.8810455	10.0685011

40. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	64944.80	85408.07	9.8125444	9.9314989
31	64966.92	85458.39	9.8126923	9.9317547
32	64989.03	85508.73	9.8128401	9.9320105
33	65011.14	85559.10	9.8129878	9.9322662
34	65033.24	85609.50	9.8131354	9.9325220
35	65055.33	85659.92	9.8132829	9.9327777
36	65077.42	85710.37	9.8134303	9.9330334
37	65099.50	85760.84	9.8135777	9.9332890
38	65121.58	85811.33	9.8137250	9.9335446
39	65143.66	85861.85	9.8138721	9.9338003
40	65165.72	85912.40	9.8140192	9.9340559
41	65187.78	85962.97	9.8141662	9.9343114
42	65209.84	86013.57	9.8143131	9.9345670
43	65231.89	86064.19	9.8144600	9.9348225
44	65253.94	86114.84	9.8146067	9.9350780
45	65275.98	86165.51	9.8147534	9.9353335
46	65298.01	86216.21	9.8148999	9.9355889
47	65320.04	86266.93	9.8150464	9.9358444
48	65342.06	86317.68	9.8151928	9.9360998
49	65364.08	86368.46	9.8153391	9.9363552
50	65386.09	86419.26	9.8154854	9.9366105
51	65408.10	86470.09	9.8156315	9.9368659
52	65430.10	86520.94	9.8157776	9.9371212
53	65452.09	86571.81	9.8159235	9.9373765
54	65474.08	86622.71	9.8160694	9.9376318
55	65496.06	86673.64	9.8162152	9.9378871
56	65518.04	86724.60	9.8163609	9.9381423
57	65540.01	86775.58	9.8165066	9.9383975
58	65561.98	86826.59	9.8166521	9.9386527
59	65583.94	86877.62	9.8167975	9.9389079
60	65605.90	86928.68	9.8169429	9.9391631

49. Grad.

Min.	Sinus	Tang.	*Log.Sin.*	*Log. Tang.*
30	76040.60	117084.96	9.8810455	10.0685011
29	76021.70	117016.01	9.8809376	10.0682453
28	76002.80	116947.12	9.8808296	10.0679895
27	75983.89	116878.27	9.8807215	10.0677338
26	75964.98	116809.47	9.8806134	10.0674780
25	75946.06	116740.71	9.8805052	10.0672223
24	75927.13	116672.00	9.8803970	10.0669666
23	75908.20	116603.34	9.8802887	10.0667110
22	75889.26	116534.72	9.8801803	10.0664554
21	75870.31	116466.15	9.8800719	10.0661997
20	75851.36	116397.63	9.8799634	10.0659441
19	75832.40	116329.16	9.8798548	10.0656886
18	75813.43	116260.73	9.8797462	10.0654330
17	75794.46	116192.34	9.8796375	10.0651775
16	75775.48	116124.00	9.8795287	10.0649220
15	75756.50	116055.71	9.8794199	10.0646665
14	75737.51	115987.47	9.8793110	10.0644111
13	75718.51	115919.27	9.8792021	10.0641556
12	75699.50	115851.11	9.8792930	10.0639002
11	75680.49	115783.01	9.8789840	10.0636448
10	75661.47	115714.95	9.8788748	10.0633895
9	75642.45	115646.93	9.8787656	10.0631341
8	75623.42	115578.96	9.8786563	10.0628788
7	75604.39	115511.04	9.8785470	10.0626235
6	75585.35	115443.16	9.8784376	10.0623682
5	75566.30	115375.32	9.8783281	10.0621129
4	75547.24	115307.54	9.8782186	10.0618577
3	75528.18	115239.79	9.8781090	10.0616025
2	75509.11	115172.10	9.8779994	10.0613473
1	75490.04	115104.45	9.8778896	10.0610921
0	75470.96	115036.84	9.8777799	10.0608369

41. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
0	65605.90	86928.68	9.8169429	9.9391631
1	65627.85	86979.76	9.8170882	9.9394182
2	65649.80	87030.87	9.8172334	9.9396733
3	65671.74	87082.00	9.8173785	9.9399284
4	65693.67	87133.16	9.8175235	9.9401835
5	65715.60	87184.35	9.8176685	9.9404385
6	65737.52	87235.56	9.8178133	9.9406936
7	65759.44	87286.80	9.8179581	9.9409486
8	65781.35	87338.06	9.8181028	9.9412036
9	65803.26	87389.35	9.8182474	9.9414585
10	65825.16	87440.67	9.8183919	9.9417135
11	65847.06	87492.01	9.8185364	9.9419684
12	65868.95	87543.38	9.8186807	9.9422233
13	65890.83	87594.78	9.8188250	9.9424782
14	65912.71	87646.20	9.8189692	9.9427331
15	65934.58	87697.65	9.8191133	9.9429879
16	65956.45	87749.12	9.8192573	9.9432428
17	65978.31	87800.62	9.8194012	9.9434976
18	66000.17	87852.15	9.8195450	9.9437524
19	66022.02	87903.70	9.8196888	9.9440072
20	66043.86	87955.28	9.8198325	9.9442619
21	66065.70	88006.89	9.8199761	9.9445166
22	66087.53	88058.52	9.8201196	9.9447714
23	66109.36	88110.18	9.8202630	9.9450261
24	66131.18	88161.86	9.8204063	9.9452807
25	66153.00	88213.57	9.8205496	9.9455354
26	66174.81	88265.31	9.8206927	9.9457900
27	66196.62	88317.07	9.8208358	9.9460447
28	66218.42	88368.86	9.8209788	9.9462993
29	66240.22	88420.68	9.8211217	9.9465539
30	66262.01	88472.53	9.8212646	9.9468084

Min.	48 Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
60	75470.96	115036.84	9.8777799	10.0608369
59	75451.87	114969.28	9.8776700	10.0605818
58	75432.78	114901.76	9.8775601	10.0603267
57	75413.68	114834.29	9.8774501	10.0600716
56	75394.57	114766.87	9.8773401	10.0598165
55	75375.46	114699.49	9.8772300	10.0595615
54	75356.34	114632.15	9.8771198	10.0593064
53	75337.21	114564.86	9.8770096	10.0590514
52	75318.08	114497.62	9.8768993	10.0587964
51	75298.94	114430.41	9.8767889	10.0585415
50	75279.80	114363.26	9.8766785	10.0582865
49	75260.65	114296.15	9.8765680	10.0580316
48	75241.49	114229.08	9.8764574	10.0577767
47	75222.33	114162.06	9.8763468	10.0575218
46	75203.16	114095.08	9.8762361	10.0572669
45	75183.98	114028.15	9.8761253	10.0570121
44	75164.80	113961.26	9.8760145	10.0567572
43	75145.61	113894.41	9.8759036	10.0565024
42	75126.41	113827.61	9.8757927	10.0562476
41	75107.21	113760.85	9.8756816	10.0559928
40	75088.00	113694.14	9.8755706	10.0557381
39	75068.79	113627.47	9.8754594	10.0554834
38	75049.57	113560.85	9.8753482	10.0552286
37	75030.34	113494.27	9.8752369	10.0549739
36	75011.11	113427.73	9.8751256	10.0547153
35	74991.87	113361.24	9.8750142	10.0544646
34	74972.62	113294.79	9.8749027	10.0542100
33	74953.37	113228.39	9.8747912	10.0539553
32	74934.11	113162.03	9.8746795	10.0537007
31	74914.84	113095.71	9.8745679	10.0534461
30	74895.57	113029.44	9.8744561	10.0531916

41 Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	66262.01	88472.53	9.8212646	9.9468084
31	66283.79	88524.40	9.8214073	9.9470630
32	66305.57	88576.30	9.8215500	9.9473175
33	66327.34	88628.22	9.8216926	9.9475720
34	66349.11	88680.17	9.8218351	9.9478265
35	66370.87	88732.15	9.8219775	9.9480810
36	66392.62	88784.16	9.8221198	9.9483355
37	66414.37	88836.20	9.8222621	9.9485899
38	66436.11	88888.26	9.8224042	9.9488443
39	66457.85	88940.34	9.8225463	9.9490987
40	66479.59	88992.45	9.8226883	9.9493531
41	66501.32	89044.59	9.8228302	9.9496075
42	66523.04	89096.75	9.8229721	9.9498619
43	66544.75	89148.94	9.8231138	9.9501162
44	66566.46	89201.16	9.8232555	9.9503705
45	66588.17	89253.41	9.8233971	9.9506248
46	66609.87	89305.69	9.8235386	9.9508791
47	66631.56	89357.99	9.8236800	9.9511334
48	66653.25	89410.32	9.8238213	9.9513876
49	66674.93	89462.68	9.8239626	9.9516419
50	66696.61	89515.06	9.8241037	9.9518961
51	66718.28	89567.47	9.8242448	9.9521503
52	66739.94	89619.91	9.8243858	9.9524045
53	66761.60	89672.38	9.8245267	9.9526587
54	66783.26	89724.87	9.8246676	9.9529128
55	66804.91	89777.39	9.8248083	9.9531670
56	66826.55	89829.94	9.8249490	9.9534211
57	66848.18	89882.52	9.8250896	9.9536752
58	66869.81	89935.12	9.8252301	9.9539293
59	66891.44	89987.75	9.8253705	9.9541834
60	66913.06	90040.41	9.8255109	9.9544374

48.Grad.

M.	Sinus	Tang.	Log. Sin	Log. Tang.
30	74895.57	113029.44	9.8744456	10.0531916
29	74876.29	112963.21	9.8743443	10.0529370
28	74857.01	112897.02	9.8742325	10.0526825
27	74837.72	112830.88	9.8741205	10.0524280
26	74818.42	112764.78	9.8740085	10.0521735
25	74799.12	112698.72	9.8738965	10.0519190
24	74779.81	112632.71	9.8737844	10.0516645
23	74760.49	112566.74	9.8736722	10.0514101
22	74741.17	112500.81	9.8735599	10.0511557
21	74721.84	112434.93	9.8734476	10.0509013
20	74702.51	112369.09	9.8733352	10.0506469
19	74683.17	112303.29	9.8732227	10.0503925
18	74663.82	112237.54	9.8731102	10.0501381
17	74644.46	112171.83	9.8729976	10.0498838
16	74625.10	112106.16	9.8728849	10.0496295
15	74605.74	112040.53	9.8727722	10.0493752
14	74586.37	111974.95	9.8726594	10.0491209
13	74566.99	111909.41	9.8725466	10.0488666
12	74547.60	111843.91	9.8724337	10.0486124
11	74528.21	111778.46	9.8723207	10.0483581
10	74508.81	111713.05	9.8722076	10.0481039
9	74489.40	111647.68	9.8720945	10.0478497
8	74469.99	11[illegible]582.35	9.8719813	10.0475955
7	74450.57	111517.06	9.8718681	10.0473413
6	74431.15	111451.82	9.8717548	10.0470872
5	74411.72	111386.62	9.8716414	10.0468330
4	74392.29	111321.46	9.8715279	10.0465789
3	74372.85	111256.35	9.8714144	10.0463248
2	74353.40	111191.27	9.8713008	10.0460707
1	74333.94	111126.24	9.8711872	10.0458168
0	74314.48	111061.25	9.8710735	10.0455628

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
0	66913.06	90040.41	9.8255109	9.9544374
1	66934.67	90093.09	9.8256512	9.9546915
2	66956.28	90145.80	9.8257913	9.9549455
3	66977.88	90198.54	9.8259314	9.9551995
4	66999.48	90251.31	9.8260715	9.9554535
5	67021.07	90304.11	9.8262114	9.9557075
6	67042.66	90356.94	9.8263512	9.9559615
7	67064.24	90409.79	9.8264910	9.9562154
8	67085.82	90462.67	9.8266307	9.9564694
9	67107.39	90515.58	9.8267703	9.9567233
10	67128.95	90568.51	9.8269098	9.9569772
11	67150.51	90621.47	9.8270493	9.9572311
12	67172.06	90674.46	9.8272887	9.9574850
13	67193.61	90727.48	9.8273279	9.9577389
14	67215.15	90780.53	9.8274671	9.9579927
15	67236.68	90833.60	9.8276063	9.9582465
16	67258.21	90886.71	9.8277453	9.9585004
17	67279.73	90939.84	9.8278843	9.9587542
18	67301.25	90993.00	9.8280231	9.9590080
19	67322.76	91046.19	9.8281619	9.9592618
20	67344.27	91099.41	9.8283006	9.9595155
21	67365.77	91152.65	9.8284393	9.9597693
22	67387.27	91205.92	9.8285778	9.9600230
23	67408.76	91259.22	9.8287163	9.9602767
24	67430.24	91312.55	9.8288547	9.9605305
25	67451.72	91365.91	9.8289930	9.9607842
26	67473.19	91419.29	9.8291312	9.9610378
27	67494.66	91472.70	9.8292694	9.9612915
28	67516.12	91526.15	9.8294075	9.9615452
29	67537.57	91579.62	9.8295454	9.9617988
30	67559.02	91633.22	9.8296833	9.9620525

47. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
60	74314.48	111061.25	9.8710735	10.0455626
59	74295.01	110996.30	9.8709597	10.0453085
58	74275.54	110931.40	9.8708458	10.0450545
57	74256.06	110866.53	9.8707319	10.0448005
56	74236.57	110801.71	9.8706179	10.0445465
55	74217.08	110736.93	9.8705039	10.0442925
54	74197.58	110672.19	9.8703898	10.0440385
53	74178.08	110607.50	9.8702756	10.0437846
52	74158.57	110542.84	9.8701613	10.0435306
51	74139.05	110478.23	9.8700470	10.0432767
50	74119.53	110413.65	9.8699326	10.0430228
49	74100.00	110349.12	9.8698182	10.0427689
48	74080.46	110284.63	9.8697037	10.0425150
47	74060.92	110220.19	9.8695891	10.0422611
46	74041.37	110155.78	9.8694744	10.0420073
45	74021.81	110091.41	9.8693597	10.0417535
44	74002.25	110027.09	9.8692449	10.0414996
43	73982.68	119962.81	9.8691301	10.0412458
42	73963.11	119898.56	9.8690152	10.0409920
41	73943.53	119834.36	9.8689002	10.0407382
40	73923.94	119770.20	9.8687851	10.0404845
39	73904.35	119706.08	9.8686700	10.0402307
38	73884.75	119642.01	9.8685548	10.0399770
37	73865.15	119577.97	9.8684396	10.0397233
36	73845.54	119513.97	9.8683242	10.0394695
35	73825.92	119450.02	9.8682088	10.0392158
34	73806.29	119386.10	9.8680934	10.0389621
33	73786.66	119322.23	9.8679779	10.0387085
32	73767.02	119258.40	9.8678623	10.0384548
31	73747.38	119194.60	9.8677466	10.0382012
30	73727.73	119130.85	9.8676309	10.0379475

42. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	67559.02	91633.12	9.8296833	9.9620525
31	67580.46	91686.65	9.8298212	9.9623061
32	67601.90	91740.20	9.8299589	9.9625597
33	67623.33	91793.79	9.8300966	9.9628133
34	67644.76	91847.40	9.8302342	9.9630669
35	67666.18	91901.04	9.8303717	9.9633204
36	67687.60	91954.71	9.8305091	9.9635740
37	67709.01	92008.41	9.8306464	9.9638275
38	67730.41	92062.14	9.8307837	9.9640811
39	67751.81	92115.90	9.8309209	9.9643346
40	67773.20	92169.68	9.8310580	9.9645881
41	67794.59	92223.50	9.8311950	9.9648416
42	67815.97	92277.34	9.8313320	9.9650951
43	67837.34	92331.22	9.8314688	9.9653486
44	67858.71	92385.12	9.8316056	9.9656020
45	67880.07	92439.05	9.8317423	9.9658555
46	67901.43	92493.01	9.8318789	9.9661089
47	67922.78	92547.00	9.8320155	9.9663623
48	67944.13	92601.01	9.8321519	9.9666157
49	67965.47	92655.06	9.8322883	9.9668692
50	67986.81	92709.14	9.8324246	9.9671225
51	68008.14	92763.24	9.8325609	9.9673759
52	68029.46	92817.38	9.8326970	9.9676293
53	68050.78	92871.54	9.8328331	9.9678827
54	68072.09	92925.73	9.8329691	9.9681360
55	68093.39	92979.96	9.8331050	9.9683893
56	68114.69	93034.21	9.8332408	9.9686427
57	68135.99	93088.49	9.8333766	9.9688960
58	68157.28	93142.80	9.8335122	9.9691493
59	68178.56	93197.14	9.8336478	9.9694026
60	68199.84	93251.51	9.8337833	9.9696559

Min.	47. Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	73727.73	109130.85	9.8676309	10.0379475
29	73708.08	109067.14	9.8675151	10.0376939
28	73688.42	109003.47	9.8673992	10.0374403
27	73668.75	108939.83	9.8672833	10.0371867
26	73649.07	108876.24	9.8671673	10.0369331
25	73629.39	108812.69	9.8670512	10.0366796
24	73609.71	108749.18	9.8669351	10.0364260
23	73590.02	108685.71	9.8668189	10.0361725
22	73570.32	108622.28	9.8667026	10.0359189
21	73550.61	108558.89	9.8665863	10.0356654
20	73530.90	108495.54	9.8664699	10.0354119
19	73511.18	108432.23	9.8663534	10.0351584
18	73491.46	108368.96	9.8662369	10.0349049
17	73471.73	108305.73	9.8661203	10.0346514
16	73451.99	108242.54	9.8660036	10.0343980
15	73432.25	108179.39	9.8658868	10.0341445
14	73412.50	108116.28	9.8657700	10.0338911
13	73392.75	108053.21	9.8656531	10.0336377
12	73372.99	107990.18	9.8655362	10.0333843
11	73353.22	107927.18	9.8654192	10.0331308
10	73333.45	107864.23	9.8653021	10.0328775
9	73313.67	107801.32	9.8651849	10.0326241
8	73293.88	107738.44	9.8650677	10.0323707
7	73274.09	107675.61	9.8649504	10.0321173
6	73254.29	107612.82	9.8648331	10.0318640
5	73234.48	107550.06	9.8647156	10.0316107
4	73214.67	107487.34	9.8645981	10.0313573
3	73194.85	107424.67	9.8644806	10.0311040
2	73175.03	107361.03	9.8643629	10.0308507
1	73155.20	107299.43	9.8642452	10.0305974
0	73135.37	107236.87	9.8641275	10.0303441

43. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
0	68199.84	93251.51	9.8337833	9.9696559
1	68221.11	93305.91	9.8339188	9.9699091
2	68242.37	93360.34	9.8340541	9.9601624
3	68263.63	93414.79	9.8341894	9.9604157
4	68284.88	93469.28	9.8343246	9.9606689
5	68306.13	93523.80	9.8344597	9.9609221
6	68327.37	93578.34	9.8345948	9.9611754
7	68348.61	93632.92	9.8347297	9.9614286
8	68369.84	93687.53	9.8348646	9.9616818
9	68391.07	93742.16	9.8349994	9.9619350
10	68412.29	93796.83	9.8351341	9.9621882
11	68433.50	93851.52	9.8352688	9.9624413
12	68454.71	93906.25	9.8354033	9.9626945
13	68475.91	93961.01	9.8355378	9.9629477
14	68497.11	94015.79	9.8356722	9.9632008
15	68518.30	94070.61	9.8358066	9.9634539
16	68539.48	94125.45	9.8359408	9.9637071
17	68560.66	94180.33	9.8360750	9.9639602
18	68581.83	94235.23	9.8362091	9.9642133
19	68603.00	94290.17	9.8363431	9.9644664
20	68624.16	94345.13	9.8364771	9.9647195
21	68645.32	94400.13	9.8366109	9.9649726
22	68666.47	94455.16	9.8367447	9.9652257
23	68687.61	94510.21	9.8368784	9.9654787
24	68708.75	94565.30	9.8370121	9.9657318
25	68729.88	94620.42	9.8371456	9.9659849
26	68751.01	94675.56	9.8372791	9.9662379
27	68772.13	94730.74	9.8374125	9.9664909
28	68793.24	94785.95	9.8375458	9.9667440
29	68814.35	94841.19	9.8376790	9.9669970
30	68835.45	94896.46	9.8378122	9.9672500

46. Grad.

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
60	73135.37	107236.87	9.8641275	10.0303441
59	73115.53	107174.35	9.8640096	10.0300909
58	73095.68	107111.87	9.8638917	10.0298376
57	73075.83	107049.43	9.8637737	10.0295843
56	73055.97	106987.02	9.8636557	10.0293311
55	73036.10	106924.66	9.8635376	10.0290779
54	73016.23	106862.33	9.8634194	10.0288246
53	72996.35	106800.04	9.8633011	10.0285714
52	72976.46	106737.79	9.8631828	10.0283182
51	72956.57	106675.58	9.8630644	10.0280650
50	72936.67	106613.41	9.8629460	10.0278118
49	72916.77	106551.28	9.8628274	10.0275587
48	72896.86	106489.18	9.8627088	10.0273055
47	72876.94	106427.13	9.8625902	10.0270523
46	72857.02	106365.11	9.8624714	10.0267992
45	72837.09	106303.13	9.8623526	10.0265461
44	72817.16	106241.19	9.8622338	10.0262929
43	72797.22	106179.29	9.8621148	10.0260398
42	72777.27	106117.42	9.8619958	10.0257867
41	72757.32	106055.60	9.8618767	10.0255336
40	72737.36	105993.81	9.8617576	10.0252805
39	72717.40	105932.06	9.8616383	10.0250274
38	72697.43	105870.34	9.8615190	10.0247743
37	72677.45	105808.67	9.8613997	10.0245213
36	72657.47	105747.03	9.8612803	10.0242682
35	72637.48	105685.44	9.8611608	10.0240151
34	72617.48	105623.88	9.8610412	10.0237621
33	72597.48	105562.35	9.8609215	10.0235091
32	72577.47	105500.87	9.8608011	10.0232560
31	72557.46	105439.42	9.860682	10.0230030
30	72537.44	105378.01	9.8605622	10.0227500

43.Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	68835.45	94896.46	9.8378122	9.9772500
31	68856.55	94951.76	9.8379453	9.9775030
32	68877.64	95007.09	9.8380783	9.9777560
33	68898.73	95062.45	9.8382112	9.9780090
34	68919.81	95117.84	9.8383441	9.9782620
35	68940.89	95173.26	9.8384769	9.9785149
36	68961.96	95228.71	9.8386096	9.9787679
37	68983.02	95284.20	9.8387422	9.9790209
38	69004.07	95339.71	9.8388747	9.9792738
39	69025.12	95395.26	9.8390072	9.9795268
40	69046.17	95450.83	9.8391396	9.9797797
41	69067.21	95506.44	9.8392719	9.9800326
42	69088.24	95562.08	9.8394041	9.9802856
43	69109.27	95617.74	9.8395363	9.9805385
44	69130.29	95673.44	9.8396684	9.9807914
45	69151.31	95729.17	9.8398004	9.9810443
46	69172.32	95784.94	9.8399323	9.9812972
47	69193.32	95840.73	9.8400642	9.9815501
48	69214.32	95896.55	9.8401959	9.9818030
49	69235.31	95952.41	9.8403276	9.9820559
50	69256.30	96008.29	9.8404593	9.9823087
51	69277.28	96064.21	9.8405908	9.9825616
52	69298.25	96120.16	9.8407223	9.9828145
53	69319.22	96176.14	9.8408537	9.9830673
54	69340.18	96232.15	9.8409850	9.9833202
55	69361.14	96288.19	9.8411162	9.9835730
56	69382.09	96344.27	9.8412474	9.9838259
57	69403.04	96400.37	9.8413785	9.9840787
58	69423.98	96456.51	9.8415095	9.9843315
59	69444.91	96512.68	9.8416404	9.9845844
60	69465.84	96568.88	9.8417713	9.9848372

Min.	46. Grad.			
	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
30	72537.44	105378.01	9.8605622	10.0227500
29	72517.41	105316.64	9.8604423	10.0224970
28	72497.38	105255.31	9.8603223	10.0222440
27	72477.34	105194.01	9.8602022	10.0219910
26	72457.29	105132.75	9.8600821	10.0217380
25	72437.24	105071.53	9.8599619	10.0214851
24	72417.18	105010.34	9.8598416	10.0212321
23	72397.29	104949.20	9.8597213	10.0209791
22	72377.05	104888.09	9.8596009	10.0207262
21	72356.98	104827.02	9.8594804	10.0204732
20	72336.90	104765.98	9.8593599	10.0202203
19	72316.81	104704.98	9.8592393	10.0199674
18	72296.71	104644.02	9.8591186	10.0197144
17	72276.61	104583.10	9.8589978	10.0194615
16	72256.51	104522.21	9.8588770	10.0192086
15	72236.40	104461.36	9.8587561	10.0189557
14	72216.28	104400.55	9.8586351	10.0187028
13	72196.15	104339.77	9.8585141	10.0184499
12	72176.02	104279.04	9.8583929	10.0181970
11	72155.88	104218.33	9.8582718	10.0179441
10	72135.74	104157.67	9.8581505	10.0176913
9	72115.59	104097.04	9.8580292	10.0174384
8	72095.44	104036.45	9.8579078	10.0171855
7	72075.28	103975.89	9.8577863	10.0169327
6	72955.11	103915.37	9.8576648	10.0166798
5	72034.94	103854.89	9.8575432	10.0164270
4	72014.76	103794.45	9.8574215	10.0161741
3	71994.57	103734.04	9.8572998	10.0159213
2	71974.38	103673.67	9.8571779	10.0156685
1	71954.18	103613.33	9.8570561	10.0154156
0	71933.98	103553.03	9.8569341	10.0151628

44. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
0	69465.84	96568.88	9.8417713	9.9848372
1	69486.76	96625.11	9.8419021	9.9850900
2	69507.67	96681.37	9.8420328	9.9853428
3	69528.58	96737.67	9.8421634	9.9855956
4	69549.49	96794.00	9.8422939	9.9858484
5	69570.39	96850.35	9.8424244	9.9861012
6	69591.28	96906.74	9.8425548	9.9863540
7	69612.17	96963.16	9.8426851	9.9866068
8	69633.05	97019.62	9.8428154	9.9868596
9	69653.92	97076.10	9.8429456	9.9871123
10	69674.79	97132.62	9.8430757	9.9873651
11	69695.65	97189.17	9.8432057	9.9876179
12	69716.51	97245.75	9.8433356	9.9878706
13	69737.36	97302.36	9.8434655	9.9881234
14	69758.21	97359.01	9.8435953	9.9883761
15	69779.05	97415.69	9.8437250	9.9886289
16	69799.88	97472.40	9.8438547	9.9888816
17	69820.71	97529.14	9.8439842	9.9891344
18	69841.53	97585.91	9.8441137	9.9893871
19	69862.34	97642.72	9.8442432	9.9896399
20	69883.15	97699.56	9.8443725	9.9898926
21	69903.96	97756.43	9.8445018	9.9901453
22	69924.76	97813.33	9.8446310	9.9903981
23	69945.55	97870.27	9.8447601	9.9906508
24	69966.33	97927.24	9.8448891	9.9909035
25	69987.11	97984.24	9.8450181	9.9911562
26	70007.89	98041.27	9.8451470	9.9914089
27	70028.66	98098.33	9.8452758	9.9916616
28	70049.42	98155.43	9.8454045	9.9919143
29	70070.18	98212.56	9.8455332	9.9921670
30	70090.93	98269.73	9.8456618	9.9924197

45. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log Tang.
60	71933.98	103553.03	9.8569341	10.0151628
59	71913.77	103492.77	9.8568121	10.0149100
58	71893.55	103432.54	9.8566900	10.0146572
57	71873.33	103372.35	9.8565678	10.0144044
56	71853.10	103312.20	9.8564455	10.0141516
55	71832.87	103252.08	9.8563232	10.0138988
54	71812.63	103191.99	9.8562008	10.0136460
53	71792.38	103131.95	9.8560784	10.0133932
52	71772.13	103071.94	9.8559558	10.0131404
51	71751.87	103011.96	9.8558332	10.0128877
50	71731.61	102952.03	9.8557106	10.0126349
49	71711.34	102892.12	9.8555878	10.0123821
48	71691.06	102832.26	9.8554650	10.0121294
47	71670.78	102772.43	9.8553421	10.0118766
46	71650.49	102712.63	9.8552192	10.0116239
45	71630.19	102652.87	9.8550961	10.0113711
44	71609.89	102593.15	9.8549730	10.0111184
43	71589.58	102533.46	9.8548499	10.0108656
42	71569.27	102473.81	9.8547266	10.0106129
41	71548.95	102414.19	9 8546033	10.0103601
40	71528.63	102354.61	9.8544799	10.0101074
39	71508.30	102295.06	9.8543564	10.0098547
38	71487.96	102235.55	9.8542329	10.0096019
37	71467.62	102176.08	9.8541093	10.0093492
36	71447.27	102116.64	9.8539856	10.0090965
35	71426.91	102057.23	9.8538619	10.0088438
34	71406.55	101997.86	9.8537381	10.0085911
33	71386.18	101938.53	9.8536142	10.0083384
32	71365.81	101879.23	9.8534902	10.0080857
31	71345.43	101819.97	9.8533662	10.0078330
30	71325.05	101760.74	9.8532421	10.0075800

44. Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	70090.93	98269.73	9.8456618	9.9924197
31	70111.67	98326.92	9.8457903	9.9926724
32	70132.41	98384.15	9.8459188	9.9929251
33	70153.14	98441.41	9.8460471	9.9931778
34	70173.87	98498.71	9.8461754	9.9934305
35	70194.59	98556.03	9.8463036	9.9936832
36	70215.30	98613.39	9.8464318	9.9939359
37	70236.01	98670.79	9.8465599	9.9941886
38	70256.71	98728.21	9.8466879	9.9944413
39	70277.41	98785.67	9.8468158	9.9946940
40	70298.10	98843.16	9.8469436	9.9949466
41	72318.79	98900.69	9.8470714	9.9951993
42	70339.47	98958.25	9.8471991	9.9954520
43	70360.14	99015.84	9.8473267	9.9957047
44	70380.81	99073.46	9.8474543	9.9959573
45	70401.47	99131.12	9.8475817	9.9962100
46	70422.13	99188.81	9.8477091	9.9964627
47	70442.78	99246.54	9.8478365	9.9967154
48	70423.42	99304.29	9.8479637	9.9969680
49	70484.06	99362.08	9.8480909	9.9972207
50	70504.69	99419.91	9.8482180	9.9974734
51	70525.32	99477.77	9.8483450	9.9977260
52	70545.94	99535.66	9.8484720	9.9979787
53	70566.55	99593.58	9.8485989	9.9982314
54	70587.16	99651.54	9.8487257	9.9984840
55	70607.76	99709.53	9.8488524	9.9987367
56	70628.35	99767.56	9.8489791	9.9989893
57	70648.94	99825.62	9.8491057	9.9992420
58	70669.53	99883.71	9.8492322	9.9994947
59	70690.11	99941.84	9.8493586	9.9997473
60	70710.68	100000.00	9.8494850	10.0000000

45. Grad.

Min.	Sinus.	Tang.	*Log. Sin.*	*Log. Tang.*
30	71325.05	101760.74	9.8532421	10.0075803
29	71304.66	101701.55	9.8531179	10.0073276
28	71284.26	101642.39	9.8529936	10.0070749
27	71263.85	101583.26	9.8528693	10.0068222
26	71243.44	101524.17	9.8527449	10.0065695
25	71223.02	101465.12	9.8526204	10.0063168
24	71202.60	101406.10	9.8524959	10.0060641
23	71182.17	101347.12	9.8523713	10.0058114
22	71161.74	101288.17	9.8522466	10.0055587
21	71141.30	101229.25	9.8521218	10.0053010
20	71120.86	101170.37	9.8519970	10.0050534
19	71100.41	101111.53	9.8518721	10.0048007
18	71079.95	101052.72	9.8517471	10.0045480
17	71059.48	100993.94	9.8516220	10.0042953
16	71039.01	100935.20	9.8514969	10.0040427
15	71018.54	100876.49	9.8513717	10.0037900
14	70998.06	100817.82	9.8512465	10.0035373
13	70977.57	100759.18	9.8511211	10.0032846
12	70957.07	100700.58	9.8509957	10.0030320
11	70936.57	100642.01	9.8508702	10.0027793
10	70916.07	100583.47	9.8507446	10.0025266
9	70895.56	100524.97	9.8506190	10.0022740
8	70875.04	100466.51	9.8504933	10.0020213
7	70854.51	100408.07	9.8503675	10.0017686
6	70833.98	160349.68	9.8502417	10.0015160
5	70813.45	100291.31	9.8501157	10.0012633
4	70792.91	100232.98	9.8499897	10.0010107
3	70772.36	100174.69	9.8498637	10.0007580
2	70751.80	100116.42	9.8497375	10.0005053
1	70731.24	100058.19	9.8496113	10.0002527
0	70710.68	100000.00	9.8494850	10.0000000

	0.	100.	200.	300.
1	0.0000000	2.0043214	2.3031961	2.4785665
2	0.3010300	2.0086002	2.3053514	2.4800069
3	0.4771212	2.0128372	2.3074960	2.4814426
4	0.6020600	2.0170333	2.3096302	2.4828736
5	0.6989700	2.0211893	2.3117539	2.4842998
6	0.7781512	2.0253059	2.3138672	2.4857214
7	0.8450980	2.0293838	2.3159703	2.4871384
8	0.9030900	2.0334238	2.3180633	2.4885507
9	0.9542425	2.0374265	2.3201463	2.4899585
10	1.0000000	2.0413927	2.3222193	2.4913617
11	1.0413927	2.0453230	2.3242824	2.4927604
12	1.0791812	2.0492180	2.3263359	2.4941546
13	1.1139433	2.0530784	2.3283796	2.4955443
14	1.1461280	2.0569048	2.3304138	2.4969296
15	1.1760913	2.0606978	2.3324385	2.4983105
16	1.2041200	2.0644580	2.3344537	2.4996871
17	1.2304489	2.0681859	2.3364597	2.5010593
18	1.2552725	2.0718820	2.3384565	2.5024271
19	1.2787536	2.0755470	2.3404441	2.5037907
20	1.3010300	2.0791812	2.3424227	2.5051500
21	1.3222193	2.0827854	2.3443923	2.5065050
22	1.3424227	2.0863598	2.3463530	2.5078559
23	1.3617278	2.0899051	2.3483049	2.5092025
24	1.3802112	2.0934217	2.3502480	2.5105450
25	1.3979400	2.0969100	2.3521825	2.5118834
26	1.4149733	2.1003705	2.3541084	2.5132176
27	1.4313638	2.1038037	2.3560259	2.5145477
28	1.4471580	2.1072100	2.3579348	2.5158738
29	1.4623980	2.1105897	2.3598355	2.5171959
30	1.4771212	2.1139433	2.3617278	2.5185139
31	1.4913617	2.1172713	2.3636120	2.5198280
32	1.5051500	2.1205739	2.3654880	2.5211381
33	1.5185139	2.1238516	2.3673559	2.5224442

	0.	100.	200.	300.
34	1.5314789	2.1271048	2.3692159	2.5237465
35	1.5440680	2.1303338	2.3710679	2.5250448
36	1.5563025	2.1335389	2.3729120	2.5263393
37	1.5682017	2.1367206	2.3747483	2.5276299
38	1.5797836	2.1398791	2.3765770	2.5289167
39	1.5910646	2.1430148	2.3783979	2.5301997
40	1.6020600	2.1461280	2.3802112	2.5314789
41	1.6127839	2.1492191	2.3820170	2.5327544
42	1.6232493	2.1522883	2.3838154	2.5340261
43	1.6334685	2.1553360	2.3856063	2.5352941
44	1.6434527	2.1583625	2.3873898	2.5365584
45	1.6532125	2.1613680	2.3891661	2.5378191
46	1.6627578	2.1643528	2.3909351	2.5390761
47	1.6720979	2.1673173	2.3926969	2.5403295
48	1.6812412	2.1702617	2.3944517	2.5415792
49	1.6901961	2.1731863	2.3961993	2.5428254
50	1.6989700	2.1760913	2.3979400	2.5440680
51	1.7075702	2.1789769	2.3996737	2.5453071
52	1.7160033	2.1818436	2.4014005	2.5465427
53	1.7242759	2.1846914	2.4031205	2.5477747
54	1.7323938	2.1875207	2.4048337	2.5490033
55	1.7403627	2.1903317	2.4065402	2.5502283
56	1.7481880	2.1931246	2.4082400	2.5514500
57	1.7558748	2.1958996	2.4099331	2.5526682
58	1.7634280	2.1986571	2.4116197	2.5538830
59	1.7708520	2.2013971	2.4132998	2.5550944
60	1.7781512	2.2041200	2.4149733	2.5563025
61	1.7853298	2.2068259	2.4166405	2.5575072
62	1.7923917	2.2095150	2.4183013	2.5587086
63	1.7993405	2.2121876	2.4199557	2.5599066
64	1.8061800	2.2148438	2.4216039	2.5611014
65	1.8129133	2.2174839	2.4232459	2.5622929
66	1.8195439	2.2201081	2.4248816	2.5634811

	0.	100.	200.	300.
67	1.8260748	2.2227165	2.4265113	2.5646661
68	1.8325089	2.2253093	2.4281348	2.5658478
69	1.8388491	2.2278867	2.4297523	2.5670264
70	1.8450980	2.2304489	2.4313638	2.5682017
71	1.8512583	2.2329961	2.4329693	2.5693739
72	1.8573325	2.2355284	2.4345689	2.5705429
73	1.8633229	2.2380461	2.4361626	2.5717088
74	1.8692317	2.2405492	2.4377506	2.5728716
75	1.8750613	2.2430380	2.4393327	2.5740313
76	1.8808136	2.2455127	2.4409091	2.5751878
77	1.8864907	2.2479733	2.4424798	2.5763413
78	1.8920946	2.2504200	2.4440448	2.5774918
79	1.8976271	2.2528530	2.4456042	2.5786392
80	1.9030900	2.2552725	2.4471580	2.5797836
81	1.9084850	2.2576786	2.4487063	2.5809250
82	1.9138138	2.2600714	2.4502491	2.5820634
83	1.9190781	2.2624511	2.4517864	2.5831988
84	1.9242793	2.2648178	2.4533183	2.5843312
85	1.9294189	2.2671717	2.4548449	2.5854607
86	1.9344984	2.2695129	2.4563660	2.5865873
87	1.9395192	2.2718416	2.4578819	2.5877110
88	1.9444827	2.2741578	2.4593925	2.5888317
89	1.9493900	2.2764618	2.4608978	2.5899496
90	1.9542425	2.2787536	2.4623980	2.5910646
91	1.9590414	2.2810334	2.4638930	2.5921768
92	1.9637878	2.2833012	2.4653828	2.5932861
93	1.9684829	2.2855573	2.4668676	2.5943925
94	1.9731278	2.2878017	2.4683473	2.5954962
95	1.9777236	2.2900346	2.4698220	2.5965971
96	1.9822712	2.2922561	2.4712917	2.5976952
97	1.9867717	2.2944662	2.4727564	2.5987905
98	1.9912261	2.2966652	2.4742163	2.5998831
99	1.9956352	2.2988531	2.4756712	2.6009729
100	1.0000000	2.3010300	2.4771212	2.6020600

	400.	500.	600.	700.
0	2.6020600	2.6989700	2.7781512	2.8450980
1	2.6031444	2.6998377	2.7788745	2.8457180
2	2. 042260	2.7007037	2.7795965	2.8463371
3	2.6053050	2.7015680	2.7803173	2.8469553
4	2.6063814	2.7024305	2.7810369	2.8475727
5	2.6074550	2.7032914	2.7817554	2.8481891
6	2.6085260	2.7041505	2.7824726	2.8488047
7	2.6095944	2.7050080	2.7831887	2.8494194
8	2.6106602	2.7058637	2.7839036	2.8500333
9	2.6117233	2.7067178	2.7846173	2.8506462
10	2.6127839	2.7075702	2.7853298	2.8512583
11	2.6138418	2.7084209	2.7860412	2.8518696
12	2.6148972	2.7092700	2.7866514	2.8524800
13	2.6159500	2.7101174	2.7874605	2.8530895
14	2.6170003	2.7109631	2.7881684	2.8536982
15	2.6180481	2.7118072	2.7888751	2.8543060
16	2.6190933	2.7126497	2.7895807	2.8549130
17	2.6201360	2.7134905	2.7902852	2.8555191
18	2.6211763	2.7143298	2.7909885	2.8561244
19	2.6222140	2.7151674	2.7916906	2.8567289
20	2.6232493	2.7160033	2.7923917	2.8573325
21	2.6242821	2.7168377	2.7930916	2.8579353
22	2.6253124	2.7176705	2.7937904	2.8585372
23	2.6263404	2.7185017	2.7944880	2.8591383
24	2.6273659	2.7193313	2.7951846	2.8597386
25	2.6283889	2.7201593	2.7958800	2.8603380
26	2.6294096	2.7209857	2.7965744	2.8609366
27	2.6304279	2.7218106	2.7972675	2.8615344
28	2.6314438	2.7226339	2.7979596	2.8621314
29	2.6324573	2.7234557	2.7986506	2.8627275
30	2.6334685	2.7242759	2.7993405	2.8633229
31	2.6344773	2.7250945	2.8000294	2.8639174
32	2.6354837	2.7259116	2.8007171	2.8645111
33	2.6364879	2.7267272	2.8014037	2.8651040

	400.	500.	600.	700.
34	2.6374897	2.7275413	2.8020893	2.8656961
35	2.6384893	2.7283538	2.8027737	2.8662873
36	2.6394865	2.7291648	2.8034571	2.8668778
37	2.6404814	2.7299743	2.8041394	2.8674675
38	2.6414741	2.7307823	2.8048207	2.8680564
39	2.6424645	2.7315888	2.8055009	2.8686444
40	2.6434527	2.7323938	2.8061800	2.8692317
41	2.6444386	2.7331973	2.8068580	2.8698182
42	2.6454223	2.7339993	2.8075350	2.8704039
43	2.6464037	2.7347998	2.8082110	2.8709888
44	2.6473830	2.7355989	2.8088859	2.8715729
45	2.6483600	2.7363965	2.8095597	2.8721563
46	2.6493349	2.7371926	2.8102325	2.8727388
47	2.6503075	2.7379873	2.8109043	2.8733206
48	2.6512780	2.7387806	2.8115750	2.8739016
49	2.6522463	2.7395723	2.8122447	2.8744818
50	2.6532125	2.7403627	2.8129134	2.8750613
51	2.6541765	2.7411516	2.8135810	2.8756399
52	2.6551384	2.7419391	2.8142476	2.8762178
53	2.6560982	2.7427251	2.8149132	2.8767950
54	2.6570558	2.7435098	2.8155777	2.8773713
55	2.6580114	2.7442930	2.8162413	2.8779469
56	2.6589648	2.7450748	2.8169038	2.8785218
57	2.6599162	2.7458552	2.8175654	2.8790959
58	2.6608655	2.7466342	2.8182259	2.8796692
59	2.6618127	2.7474118	2.8188854	2.8802418
60	2.6627578	2.7481880	2.8195439	2.8808136
61	2.6637009	2.7489629	2.8202015	2.8813847
62	2.6646420	2.7497363	2.8208580	2.8819550
63	2.6655810	2.7505084	2.8215135	2.8825245
64	2.6665180	2.7512791	2.8221681	2.8830934
65	2.6674529	2.7520484	2.8228216	2.8836614
66	2.6683859	2.7528164	2.8234742	2.8842288
67	2.6693169	2.7535831	2.8241258	2.8847954

	400.	500.	600.	700.
67	2.6693169	2.7535831	2.8241258	2.8847954
68	2.6702458	2.7543483	2.8247765	2.8853612
69	2.6711728	2.7551123	2.8254261	2.8859263
70	2.6720979	2.7558748	2.8260748	2.8864907
71	2.6730209	2.7566361	2.8267225	2.8870544
72	2.6739420	2.7573960	2.8273693	2.8876173
73	2.6748611	2.7581546	2.8280151	2.8881795
74	2.6757783	2.7589119	2.8286599	2.8887410
75	2.6766936	2.7596678	2.8293038	2.8893017
76	2.6776069	2.7604225	2.8299467	2.8898617
77	2.6785184	2.7611758	2.8305887	2.8904210
78	2.6794279	2.7619278	2.8312297	2.8909796
79	2.6803355	2.7626786	2.8318698	2.8915375
80	2.6812412	2.7634280	2.8325089	2.8920946
81	2.6821451	2.7641761	2.8331471	2.8926510
82	2.6830470	2.7649230	2.8337844	2.8932067
83	2.6839471	2.7656685	2.8344207	2.8937618
84	2.6848454	2.7664128	2.8350561	2.8943161
85	2.6857417	2.7671559	2.8356906	2.8948696
86	2.6866363	2.7678976	2.8363241	2.8954225
87	2.6875290	2.7686381	2.8369567	2.8959747
88	2.6884198	2.7693773	2.8375884	2.8965262
89	2.6893089	2.7701153	2.8382192	2.8970770
90	2.6901961	2.7708520	2.8388491	2.8976271
91	2.6910815	2.7715875	2.8394780	2.8981765
92	2.6919651	2.7723217	2.8401061	2.8987252
93	2.6928469	2.7730547	2.8407332	2.8992732
94	2.6937269	2.7737864	2.8413595	2.8998205
95	2.6946052	2.7745170	2.8419848	2.9003671
96	2.6954817	2.7752463	2.8426092	2.9009131
97	2.6963564	2.7759743	2.8432328	2.9014583
98	2.6972293	2.7767012	2.8438554	2.9020029
99	2.6981005	2.7774268	2.8444772	2.9025468
100	2.6989700	2.7781512	2.8450980	2.9030900

	800.	900.	1000.	1100.
0	2.9030900	2.9542425	3.0000000	3.0413927
1	2.9036325	2.9547248	3.0003431	3.0417873
2	2.9041744	2.9552065	3.0008677	3.0421816
3	2.9047155	2.9556877	3.0013009	3.0425755
4	2.9052560	2.9561684	3.0017337	3.0429691
5	2.9057959	2.9566486	3.0021661	3.0433623
6	2.9063350	2.9571282	3.0025980	3.0437551
7	2.9068735	2.9576073	3.0030295	3.0441476
8	2.9074114	2.9580858	3.0034605	3.0445398
9	2.9079485	2.9585639	3.0038912	3.0449315
10	2.9084850	2.9590414	3.0043214	3.0453230
11	2.9090208	2.9595184	3.0047511	3.0457140
12	2.9095560	2.9599948	3.0051805	3.0461048
13	2.9100905	2.9604708	3.0056094	3.0464952
14	2.9106244	2.9609462	3.0060379	3.0468852
15	2.9111576	2.9614211	3.0064660	3.0472749
16	2.9116901	2.9618955	3.0068937	3.0476642
17	2.9122220	2.9623693	3.0073209	3.0480532
18	2.9127533	2.9628427	3.0077478	3.0484418
19	2.9132839	2.9633155	3.0081742	3.0488301
20	2.9138138	2.9637878	3.0086002	3.0492180
21	2.9143431	2.9642596	3.0090257	3.0496056
22	2.9148718	2.9647309	3.0094509	3.0499928
23	2.9153998	2.9652017	3.0098756	3.0503797
24	2.9159272	2.9656720	3.0102999	3.0507663
25	2.9164539	2.9661417	3.0107239	3.0511525
26	2.9169800	2.9666110	3.0111474	3.0515384
27	2.9175055	2.9670797	3.0115704	3.0519239
28	2.9180303	2.9675480	3.0119931	3.0523091
29	2.9185545	2.9680157	3.0124154	3.0526939
30	2.9190781	2.9684829	3.0128372	3.0530784
31	2.9196010	2.9689497	3.0132587	3.0534626
32	2.9201233	2.9694159	3.0136797	3.0538464
33	2.9206450	2.9698816	3.0141003	3.0542299

	800.	900.	1000.	1100.
34	2.9211660	2.9703469	3.0145205	3.0546130
35	2.9216865	2.9708116	3.0149403	3.0549958
36	2.9222063	2.9712758	3.0153597	3.0553783
37	2.9227254	2.9717396	3.0157787	3.0557604
38	2.9232440	2.9722028	3.0161973	3.0561423
39	2.9237620	2.9726656	3.0166155	3.0565237
40	3.9242793	2.9731278	3.0170333	3.0569048
41	2.9247960	2.9735896	3.0174507	3.0572856
42	2.9253121	2.9740509	3.0178677	3.0576661
43	2.9258276	2.9745117	3.0182843	3.0580462
44	2.9263424	2.9749720	3.0187005	3.0584260
45	2.9268567	2.9754318	3.0191163	3.0588055
46	2.9273704	2.9758911	3.0195317	3.0591846
47	2.9278834	2.9763500	3.0199467	3.0595634
48	2.9283958	2.9768083	3.0203613	3.0599419
49	2.9289077	2.9772662	3.0207755	3.0603200
50	2.9294189	2.9777236	3.0211893	3.0606978
51	2.9299296	2.9781805	3.0216027	3.0610753
52	2.9304396	2.9786369	3.0220157	3.0614525
53	2.9309490	2.9790929	3.0224284	3.0618293
54	2.9314579	2.9795484	3.0228406	3.0622058
55	2.9319661	2.9800034	3.0232524	3.0625820
56	2.9324738	2.9804579	3.0236639	3.0629578
57	2.9329808	2.9809119	3.0240750	3.0633334
58	2.9334873	2.9813655	3.0244857	3.0637085
59	2.9339932	2.9818186	3.0248960	3.0640034
60	2.9344984	2.9822712	3.0253059	3.0644580
61	2.9350031	2.9827234	3.0257154	3.0648322
62	2.9355073	2.9831751	3.0261245	3.0652061
63	2.9360108	2.9836263	3.0265333	3.0655797
64	2.9365137	2.9840770	3.0269416	3.0659530
65	2.9370161	2.9845273	3.0273496	3.0663259
66	2.9375179	2.9849771	3.0277572	3.0666985
67	2.9380191	2.9854265	3.0281644	3.0670708

	800.	900.	1000.	1100.
67	2.9380191	2.9854265	3.0281644	3.0670708
68	2.9385197	2.9858753	3.0285712	3.0674428
69	2.9390198	2.9863238	3.0289777	3.0678145
70	2.9395192	2.9867717	3.0293838	3.0681859
71	2.9400181	2.9872192	3.0297895	3.0685569
72	2.9405165	2.9876663	3.0301948	3.0689276
73	2.9410142	2.9881128	3.0305997	3.0692980
74	2.9415114	2.9885589	3.0310043	3.0696681
75	2.9420080	2.9890046	3.0314085	3.0700379
76	2.9425041	2.9894498	3.0318123	3.0704073
77	2.9429996	2.9898946	3.0322157	3.0707765
78	2.9434945	2.9903388	3.0326188	3.0711453
79	2.9439889	2.9907827	3.0330214	3.0715138
80	2.9444827	2.9912261	3.0334237	3.0718820
81	2.9449759	2.9916690	3.0338257	3.0722499
82	2.9454686	2.9921115	3.0342273	3.0726175
83	2.9459607	2.9925535	3.0346284	3.0729847
84	2.9464523	2.9929951	3.0350293	3.0733517
85	2.9469433	2.9934362	3.0354297	3.0737183
86	2.9474337	2.9938769	3.0358298	3.0740847
87	2.9479236	2.9943171	3.0362295	3.0744507
88	2.9484130	2.9947569	3.0366289	3.0748164
89	2.9489018	2.9951963	3.0370279	3.0751818
90	2.9493900	2.9956352	3.0374265	3.0755470
91	2.9498777	2.9960736	3.0378247	3.0759118
92	2.9503648	2.9965117	3.0382226	3.0762762
93	2.9508514	2.9969492	3.0386201	3.0766404
94	2.9513375	2.9973864	3.0390173	3.0770043
95	2.9518230	2.9978231	3.0394141	3.0773679
96	2.9523080	2.9982593	3.0398105	3.0777312
97	2.9527924	2.9786951	3.0402066	3.0780941
98	2.9532763	2.9991305	3.0406023	3.0784568
99	2.9537597	2.9995655	3.0409977	3.0788192
100	2.9542425	3.0000000	3.0413927	3.0791812

	1200.	1300.	1400.	1500.
0	3.0791812	3.1139433	3.1461280	3.1760913
1	3.0795430	3.1142773	3.1464381	3.1763807
2	3.0799045	3.1146110	3.1467480	3.1766699
3	3.0802656	3.1149444	3.1470577	3.1769590
4	3.0806265	3.1152776	3.1473671	3.1772478
5	3.0809870	3.1156105	3.1476763	3.1775365
6	3.0813473	3.1159432	3.1479853	3.1778250
7	3.0817073	3.1162756	3.1482941	3.1781132
8	3.0820669	3.1166077	3.1486029	3.1784013
9	3.0824263	3.1169396	3.1489110	3.1786892
10	3.0827854	3.1172713	3.1492191	3.1789769
11	3.0831441	3.1176027	3.1495270	3.1792645
12	3.0835026	3.1179338	3.1498347	3.1795518
13	3.0838608	3.1182647	3.1501422	3.1798389
14	3.0842187	3.1185954	3.1504494	3.1801259
15	3.0845763	3.1189257	3.1507564	3.1804126
16	3.0849336	3.1192559	3.1510632	3.1806992
17	3.0852906	3.1195858	3.1513698	3.1809856
18	3.0856473	3.1199154	3.1516762	3.1812718
19	3.0860037	3.1202448	3.1519824	3.1815578
20	3.0863598	3.1205739	3.1522883	3.1818436
21	3.0867156	3.1209028	3.1525941	3.1821292
22	3.0870712	3.1212314	3.1528996	3.1824146
23	3.0874264	3.1215598	3.1532049	3.1826999
24	3.0877814	3.1218880	3.1535100	3.1829850
25	3.0881361	3.1222159	3.1538149	3.1832698
26	3.0884905	3.1225435	3.1541195	3.1835545
27	3.0888446	3.1228709	3.1544240	3.1838390
28	3.0891984	3.1231981	3.1547282	3.1841233
29	3.0895519	3.1235250	3.1550322	3.1844075
30	3.0899051	3.1238516	3.1553360	3.1846914
31	3.0902580	3.1241780	3.1556396	3.1849752
32	3.0906107	3.1245042	3.1559430	3.1852588
33	3.0909631	3.1248301	3.1562462	3.1855421

Min.	43. Grad. Sinus	Tang.	Log. Sin.	Log. Tang.
0	68199.84	93251.51	9.8337833	9.9696559
1	68221.11	93305.91	9.8339188	9.9699091
2	68242.37	93360.34	9.8340541	9.9601624
3	68263.63	93414.79	9.8341894	9.9604157
4	68284.88	93469.28	9.8343246	9.9606689
5	68306.13	93523.8[illegible]	9.8344597	9.9609221
6	68327.37	93578.34	9.8345948	9.9611754
7	68348.61	93632.92	9.8347297	9.9614286
8	68369.84	93687.53	9.8348646	9.9616818
9	68391.07	93742.16	9.8349994	9.9619350
10	68412.29	93796.83	9.8351341	9.9621882
11	68433.50	93851.52	9.8352688	9.9624413
12	68454.71	93906.25	9.8354033	9.9626945
13	68475.91	93961.01	9.8355378	9.9629477
14	68497.11	94015.79	9.8356722	9.9632008
15	68518.30	94070.61	9.8358066	9.9634539
16	68539.48	94125.45	9.8359408	9.9637071
17	68560.66	94180.33	9.8360750	9.9639602
18	68581.83	94235.23	9.8362091	9.9642133
19	68603.00	94290.17	9.8363431	9.9644664
20	68624.16	94345.13	9.8364771	9.9647195
21	68645.32	94400.13	9.8366109	9.9649726
22	68666.47	94455.16	9.8367447	9.9652257
23	68687.61	94510.21	9.8368784	9.9654787
24	68708.75	94565.30	9.8370121	9.9657318
25	68729.88	94620.42	9.8371456	9.9659849
26	68751.01	94675.56	9.8372791	9.9662379
27	68772.13	94730.74	9.8374125	9.9664909
28	68793.24	94785.95	9.8375458	9.9667440
29	68814.35	94841.19	9.8376790	9.9669970
30	68835.45	94896.46	9.8378122	9.9672500

46. Grad.

Min.	Sinus	Tang.	*Log. Sin.*	*Log. Tang.*
60	73135.37	107236.87	9.8641275	10.0303441
59	73115.53	107174.35	9.8640096	10.0300909
58	73095.68	107111.87	9.8638917	10.0298376
57	73075.83	107049.43	9.8637737	10.0295843
56	73055.97	106987.02	9.8636557	10.0293311
55	73036.10	106924.66	9.8635376	10.0290779
54	73016.23	106862.33	9.8634194	10.0288246
53	72996.35	106800.04	9.8633011	10.0285714
52	72976.46	106737.79	9.8631828	10.0283182
51	72956.57	106675.58	9.8630644	10.0280650
50	72936.67	106613.41	9.8629460	10.0278118
49	72916.77	106551.28	9.8628274	10.0275587
48	72896.86	106489.18	9.8627088	10.0273055
47	72876.94	106427.13	9.8625902	10.0270523
46	72857.02	106365.11	9.8624714	10.0267992
45	72837.09	106303.13	9.8623526	10.0265461
44	72817.16	106241.19	9.8622338	10.0262929
43	72797.22	106179.29	9.8621148	10.0260398
42	72777.27	106117.42	9.8619958	10.0257867
41	72757.32	106055.60	9.8618767	10.0255336
40	72737.36	105993.81	9.8617576	10.0252805
39	72717.40	105932.06	9.8616383	10.0250274
38	72697.43	105870.34	9.8615190	10.0247743
37	72677.45	105808.67	9.8613997	10.0245213
36	72657.47	105747.03	9.8612803	10.0242682
35	72637.48	105685.44	9.8611608	10.0240151
34	72617.48	105623.88	9.8610412	10.0237621
33	72597.48	105562.35	9.8609215	10.0235091
32	72577.47	105500.87	9.8608018	10.0232560
31	72557.46	105439.42	9.860682[illegible]	10.0230030
30	72537.44	105378.01	9.8605622	10.0227500

41.Grad.

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
30	66262.01	88472.53	9.8212646	9.9468084
31	66283.79	88524.40	9.8214073	9.9470630
32	66305.57	88576.30	9.8215500	9.9473175
33	66327.34	88628.22	9.8216926	9.9475720
34	66349.11	88680.17	9.8218351	9.9478265
35	66370.87	88732.15	9.8219775	9.9480810
36	66392.62	88784.16	9.8221198	9.9483355
37	66414.37	88836.20	9.8222621	9.9485899
38	66436.11	88888.26	9.8224042	9.9488443
39	66457.85	88940.34	9.8225463	9.9490987
40	66479.59	88992.45	9.8226883	9.9493531
41	66501.32	89044.59	9.8228302	9.9496075
42	66523.04	89096.75	9.8229721	9.9498619
43	66544.75	89148.94	9.8231138	9.9501162
44	66566.46	89201.16	9.8232555	9.9503705
45	66588.17	89253.41	9.8233971	9.9506248
46	66609.87	89305.69	9.8235386	9.9508791
47	66631.56	89357.99	9.8236800	9.9511334
48	66653.25	89410.32	9.8238213	9.9513876
49	66674.93	89462.68	9.8239626	9.9516419
50	66696.61	89515.06	9.8241037	9.9518961
51	66718.28	89567.47	9.8242448	9.9521503
52	66739.94	89619.91	9.8243858	9.9524045
53	66761.60	89672.38	9.8245267	9.9526587
54	66783.26	89724.87	9.8246676	9.9529128
55	66804.91	89777.39	9.8248083	9.9531670
56	66826.55	89829.94	9.8249490	9.9534211
57	66848.18	89882.52	9.8250896	9.9536752
58	66869.81	89935.12	9.8252301	9.9539293
59	66891.44	89987.75	9.8253705	9.9541834
60	66913.06	90040.41	9.8255109	9.9544374

M. n.	48.Grad.			
	Sinus	Tang.	*Log. Sin*	*Log. Tang.*
30	74895.57	113029.44	9.874456[illegible]	10.0531916
29	74876.29	112963.21	9.8743443	10.0529370
28	74857.01	112897.02	9.8742325	10.0526825
27	74837.72	112830.88	9.8741205	10.0524280
26	74818.42	112764.78	9.8740085	10.0521735
25	74799.12	112698.72	9.8738965	10.0519190
24	74779.81	112632.71	9.8737844	10.0516645
23	74760.49	112566.74	9.8736722	10.0514101
22	74741.17	112500.81	9.8735599	10.0511557
21	74721.84	112434.93	9.8734476	10.0509013
20	74702.51	112369.09	9.8733352	10.0506469
19	74683.17	112303.29	9.8732227	10.0503925
18	74663.82	112237.54	9.8731102	10.0501381
17	74644.46	112171.83	9.8729976	10.0498838
16	74625.10	112106.16	9.8728849	10.0496295
15	74605.74	112040.53	9.8727722	10.0493752
14	74586.37	111974.95	9.8726594	10.0491209
13	74566.99	111909.41	9.8725466	10.0488666
12	74547.60	111843.91	9.8724337	10.0486124
11	74528.21	111778.46	9.8723207	10.0483581
10	74508.81	111713.05	9.8722076	10.0481039
9	74489.40	111647.68	9.8720945	10.0478497
8	74469.99	11[illegible]582.35	9.8719813	10.0475955
7	74450.57	111517.06	9.8718681	10.0473413
6	74431.15	111451.82	9.8717548	10.0470872
5	74411.72	111386.62	9.8716414	10.0468330
4	74392.29	111321.46	9.8715279	10.0465789
3	74372.85	111256.35	9.8714144	10.0463248
2	74353.40	111191.27	9.8713008	10.0460707
1	74333.94	111126.24	9.8711872	10.0458166
0	74314.48	111061.25	9.8710735	10.0455626

Min.	Sinus	Tang.	Log. Sin.	Log. Tang.
0	66913.06	90040.41	9.8255109	9.9544374
1	66934.67	90093.09	9.8256512	9.9546915
2	66956.28	90145.80	9.8257913	9.9549455
3	66977.88	90198.54	9.8259314	9.9551995
4	66999.48	90251.31	9.8260715	9.9554535
5	67021.07	90304.11	9.8262114	9.9557075
6	67042.66	90356.94	9.8263512	9.9559615
7	67064.24	90409.79	9.8264910	9.9562154
8	67085.82	90462.67	9.8266307	9.9564694
9	67107.39	90515.58	9.8267703	9.9567233
10	67128.95	90568.51	9.8269098	9.9569772
11	67150.51	90621.47	9.8270493	9.9572311
12	67172.06	90674.46	9.8272887	9.9574850
13	67193.61	90727.48	9.8273279	9.9577389
14	67215.15	90780.53	9.8274671	9.9579927
15	67236.68	90833.60	9.8276063	9.9582465
16	67258.21	90886.71	9.8277453	9.9585004
17	67279.73	90939.84	9.8278843	9.9587542
18	67301.25	90993.00	9.8280231	9.9590080
19	67322.76	91046.19	9.8281619	9.9592618
20	67344.27	91099.41	9.8283006	9.9595155
21	67365.77	91152.65	9.8284393	9.9597693
22	67387.27	91205.92	9.82[illegible]778	9.9600230
23	67408.76	91259.22	9.8287163	9.9602767
24	67430.24	91312.55	9.8288547	9.9605305
25	67451.72	91365.91	9.8289930	9.9607842
26	67473.19	91419.29	9.8291312	9.9610378
27	67494.66	91472.70	9.8292694	9.9612915
28	67516.12	91526.15	9.8294075	9.9615452
29	67537.57	91579.62	9.8295454	9.9617988
30	67559.02	91633.22	9.8296833	9.9620525

47. Grad.

Min.	Sinus	Tang.	*Log.Sin.*	*Log. Tang.*
60	74314.48	111061.25	9.8710735	10.0455626
59	74295.01	110996.30	9.8709597	10.0453085
58	74275.54	110931.40	9.8708458	10.0450545
57	74256.06	110866.53	9.8707319	10.0448005
56	74236.57	110801.71	9.8706179	10.0445465
55	74217.08	110736.93	9.8705039	10.0442925
54	74197.58	110672.19	9.8703898	10.0440385
53	74178.08	110607.50	9.8702756	10.0437846
52	74158.57	110542.84	9.8701613	10.0435306
51	74139.05	110478.23	9.8700470	10.0432767
50	74119.53	110413.65	9.8699326	10.0430228
49	74100.00	110349.12	9.8698182	10.0427689
48	74080.46	110284.63	9.8697037	10.0425150
47	74060.92	110220.19	9.8695891	10.0422611
46	74041.37	110155.78	9.8694744	10.0420073
45	74021.81	110091.41	9.8693597	10.0417535
44	74002.25	110027.09	9.8692449	10.0414996
43	73982.68	119962.81	9.8691301	10.0412458
42	73963.11	119898.56	9.8690152	10.0409920
41	73943.53	119834.36	9.8689002	10.0407382
40	73923.94	119770.20	9.8687851	10.0404845
39	73904.35	119706.08	9.8686700	10.0402307
38	73884.75	119642.01	9.8685548	10.0399770
37	73865.15	119577.97	9.8684396	10.0397233
36	73845.54	119513.97	9.8683242	10.0394695
35	73825.92	119450.02	9.8682088	10.0392158
34	73806.29	119386.10	9.8680934	10.0389612
33	73786.66	119322.23	9.8679779	10.0387085
32	73767.02	119258.40	9.8678623	10.0384548
31	73747.38	119194.60	9.8677466	10.0382012
30	73727.73	119130.85	9.8676309	10.0379475

	2000.	2100.	2100.	2300.
[illegible]	3.3083509	3.3291944	3.3490832	3.3681008
[illegible]	3.3085644	3.3293979	3.3492775	3.3682869
36	3.3087778	3.3296012	3.3494718	3.3684728
37	3.3089910	3.3298045	3.3496660	3.3686587
38	3.3092042	3.3300077	3.3498601	3.3688445
39	3.3094172	3.3302108	3.3500541	3.3690302
40	3.3096302	3.3304138	3.3502480	3.3692159
41	3.3098430	3.3306167	3.3504419	3.3694014
42	3.3100557	3.3308195	3.3506356	3.3695869
43	3.3102684	3.3310222	3.3508293	3.3697723
44	3.3104809	3.3312248	3.3510228	3.3699576
45	3.3106933	3.3314273	3.3512163	3.3701428
46	3.3109056	3.3316297	3.3514098	3.3703280
47	3.3111178	3.3318320	3.3516031	3.3705131
48	3.3113299	3.3320343	3.3517963	3.3706981
49	3.3115420	3.3322364	3.3519895	3.3708830
50	3.3117539	3.3324385	3.3521825	3.3710679
51	3.3119657	3.3326404	3.3523755	3.3712526
52	3.3121774	3.3328423	3.3525684	3.3714373
53	3.3123889	3.3330440	3.3527612	3.3716219
54	3.3126004	3.3332457	3.3529539	3.3718065
55	3.3128118	3.3334473	3.3531465	3.3719909
56	3.3130231	3.3336488	3.3533391	3.3721753
57	3.3132343	3.3338501	3.3535316	3.3723596
58	3.3134454	3.3340514	3.3537239	3.3725438
59	3.3136563	3.3342526	3.3539162	3.3727279
60	3.3138672	3.3344537	3.3541084	3.3729120
61	3.3140780	3.3346548	3.3543006	3.3730960
62	3.3142887	3.3348557	3.3544926	3.3732799
63	3.3144992	3.3350565	3.3546846	3.3734637
64	3.3147097	3.3352572	3.3548764	3.3736475
65	3.3149200	3.3 54579	3.3550682	3.3738311
66	3.3151303	3.3 56585	3.3552599	3.3740147
67	3.3153405	3.3358589	3.3554515	3.3741983

	2000.	2100.	2200.	2300.
67	3.3153405	3.3358589	3.3554515	3.3741983
68	3.3155505	3.3360593	3.3556430	3.3743817
69	3.3157605	3.3362596	3.3558345	3.3745651
70	3.3159703	3.3364597	3.3560259	3.3747483
71	3.3161801	3.3366598	3.3562171	3.3749316
72	3.3163897	3.3368598	3.3564083	3.3751147
73	3.3165993	3.3370597	3.3565994	3.3752977
74	3.3168087	3.3372595	3.3567905	3.3754807
75	3.3170181	3.3374593	3.3569814	3.3756636
76	3.3172273	3.3376589	3.3571723	3.3758464
77	3.3174365	3.3378584	3.3573630	3.3760292
78	3.3176455	3.3380579	3.3575537	3.3762118
79	3.3178545	3.3382572	3.3577443	3.3763944
80	3.3180633	3.3384565	3.3579348	3.3765769
81	3.3182721	3.3386557	3.3581253	3.3767594
82	3.3184807	3.3388547	3.3583156	3.3769418
83	3.3186893	3.3390537	3.3585059	3.3771240
84	3.3188977	3.3392526	3.3586961	3.3773062
85	3.3191061	3.3394514	3.3588862	3.3774884
86	3.3193143	3.3396501	3.3590762	3.3776704
87	3.3195224	3.3398488	3.3592662	3.3778524
88	3.3197305	3.3400473	3.3594560	3.3780343
89	3.3199384	3.3402458	3.3596458	3.3782161
90	3.3201463	3.3404441	3.3598355	3.3783979
91	3.3203540	3.3406424	3.3600251	3.3785796
92	3.3205617	3.3408405	3.3602146	3.3787612
93	3.3207692	3.3410386	3.3604041	3.3789427
94	3.3209767	3.3412366	3.3605934	3.3791241
95	3.3211840	3.3414345	3.3607827	3.3793055
96	3.3213913	3.3416323	3.3609719	3.3794868
97	3.3215984	3.3418301	3.3611610	3.3796680
98	3.3218055	3.3420277	3.3613500	3.3798492
99	3.3220124	3.3422252	3.3615390	3.3800302
100	3.3222193	3.3424227	3.3617278	3.3802112

	2400.	2500.	2600.	2700.
0	3.3802112	3.3979400	3.4149733	3.4313638
1	3.3803922	3.3981137	3.4151404	3.43156246
2	3.3805730	3.3982873	3.4153073	3.4316853
3	3.3807538	3.3984608	3.4154742	3.4318460
4	3.3809345	3.3986343	3.4156410	3.4320067
5	3.3811151	3.3988077	3.4158077	3.4321673
6	3.3812956	3.3989811	3.4159744	3.4323278
7	3.3814761	3.3991543	3.4161410	3.4324882
8	3.3816565	3.3993275	3.4163076	3.4326487
9	3.3818368	3.3995007	3.4164741	3.4328090
10	3.3820170	3.3996737	3.4166405	3.4329693
11	3.3821972	3.3998467	3.4168069	3.4331295
12	3.3823773	3.4000196	3.4169732	3.4332897
13	3.3825573	3.4001925	3.4171394	3.4334498
14	3.3827373	3.4003653	3.4173056	3.4336098
15	3.3829171	3.4005380	3.4174717	3.4337698
16	3.3830969	3.4007106	3.4176377	3.4339298
17	3.3832766	3.4008832	3.4178037	3.4340896
18	3.3834563	3.4010557	3.4179696	3.4342494
19	3.3836359	3.4012282	3.4181355	3.4344092
20	3.3838154	3.4014005	3.4183013	3.4345689
21	3.3839948	3.4015728	3.4184670	3.4347285
22	3.3841741	3.4017451	3.4186327	3.4348881
23	3.3843534	3.4019173	3.4187983	3.4350476
24	3.3845326	3.4020893	3.4189638	3.4352071
25	3.3847117	3.4022614	3.4191293	3.4353665
26	3.3848908	3.4024333	3.4192947	3.4355258
27	3.3850698	3.4026052	3.4194601	3.4356851
28	3.3852487	3.4027771	3.4196254	3.4358444
29	3.3854275	3.4029488	3.4197906	3.4360035
30	3.3856063	3.4031205	3.4199557	3.4361626
31	3.3857850	3.4032921	3.4201208	3.4363217
32	3.3859636	3.4034637	3.4202859	3.4364807
33	3.3861421	3.4036352	3.4204509	3.4366396

	2400.	2500.	2600.	2700.
34	3.3863206	3.4038066	3.4206158	3.4367985
35	3.3864990	3.4039780	3.4207806	3.4369573
36	3.3866773	3.4041492	3.4209454	3.4371161
37	3.3868555	3.4043205	3.4211101	3.4372748
38	3.3870337	3.4044916	3.4212748	3.4374334
39	3.3872118	3.4046627	3.4214394	3.4375920
40	3.3873898	3.4048337	3.4216039	3.4377506
41	3.3875678	3.4050047	3.4217684	3.4379090
42	3.3877457	3.4051755	3.4219328	3.4380674
43	3.3879235	3.4053464	3.4220972	3.4382258
44	3.3881012	3.4055171	3.4222614	3.4383841
45	3.3882789	3.4056878	3.4224257	3.4385423
46	3.3884565	3.4058584	3.4225898	3.4387005
47	3.3886340	3.4060289	3.4227539	3.4388587
48	3.3888114	3.4061994	3.4229180	3.4390167
49	3.3889888	3.4063698	3.4230820	3.4391747
50	3.3891661	3.4065402	3.4232459	3.4393327
51	3.3893433	3.4067105	3.4234097	3.4394906
52	3.3895205	3.4068807	3.4235735	3.4396484
53	3.3896975	3.4070508	3.4237372	3.4398062
54	3.3898746	3.4072209	3.4239009	3.4399639
55	3.3900515	3.4073909	3.4240645	3.4401216
56	3.3902284	3.4075608	3.4242281	3.4402792
57	3.3904052	3.4077307	3.4243916	3.4404368
58	3.3905819	3.4079005	3.4245550	3.4405943
59	3.3907585	3.4080703	3.4247183	3.4407517
60	3.3909351	3.4082400	3.4248816	3.4409091
61	3.3911116	3.4084096	3.4250449	3.4410664
62	3.3912880	3.4085791	3.4252080	3.4412237
63	3.3914644	3.4087486	3.4253712	3.4413809
64	3.3916407	3.4089180	3.4255342	3.4415380
65	3.3918169	3.4090874	3.4256972	3.4416951
66	3.3919931	3.4092567	3.4258601	3.4418522
67	3.3921691	3.4094259	3.4260230	3.4420092

	2400.	2500.	2600.	2700.
67	3.3921691	3.4094259	3.4260230	3.4420092
68	3.3923452	3.4095950	3.4261858	3.4421661
69	3.3925211	3.4097641	3.4263486	3.4423229
70	3.3926969	3.4099331	3.4265113	3.4424798
71	3.3928727	3.4101021	3.4266739	3.4426365
72	3.3930485	3.4102710	3.4268365	3.4427932
73	3.3932241	3.4104398	3.4269990	3.4429499
74	3.3933997	3.4106085	3.4271614	3.4431065
75	3.3935752	3.4107772	3.4273238	3.4432630
76	3.3937506	3.4109459	3.4274861	3.4434195
77	3.3939260	3.4111144	3.4276484	3.4435759
78	3.3941013	3.4112829	3.4278106	3.4437322
79	3.3942765	3.4114513	3.4279727	3.4438885
80	3.3944517	3.4116197	3.4281348	3.4440448
81	3.3946268	3.4117880	3.4282968	3.4442010
82	3.3948018	3.4119562	3.4284588	3.4443571
83	3.3949767	3.4121244	3.4286207	3.4445132
84	3.3951516	3.4122925	3.4287825	3.4446692
85	3.3953264	3.4124605	3.4289443	3.4448252
86	3.3955011	3.4126285	3.4291060	3.4449811
87	3.3956758	3.4127964	3.4292677	3.4451370
88	3.3958504	3.4129643	3.4294293	3.4452928
89	3.3960249	3.4131320	3.4295908	3.4454485
90	3.3961993	3.4132998	3.4297523	3.4456042
91	3.3963737	3.4134674	3.4299137	3.4457598
92	3.3965480	3.4136350	3.4300751	3.4459154
93	3.3967223	3.4138025	3.4302364	3.4460709
94	3.3968964	3.4139700	3.4303976	3.4462264
95	3.3970705	3.4141374	3.4305588	3.4463818
96	3.3972446	3.4143047	3.4307199	3.4465372
97	3.3974185	3.4144719	3.4308809	3.4466925
98	3.3975924	3.4146391	3.4310419	3.4468477
99	3.3977662	3.4148063	3.4312029	3.4470029
100	3.3979400	3.4149733	3.4313638	3.4471580

	2800.	2900.	3000.	3100.
0	3.4471580	3.4623980	3.4771212	3.4913617
1	3.4473131	3.4625477	3.4772660	3.4915018
2	3.4474681	3.4626974	3.4774107	3.4916418
3	3.4476231	3.4628470	3.4775553	3.4917818
4	3.4477780	3.4629966	3.4776999	3.4919217
5	3.4479329	3.4631461	3.4778445	3.4920616
6	3.4480877	3.4632956	3.4779890	3.4922014
7	3.4482424	3.4634450	3.4781334	3.4923413
8	3.4483971	3.4635944	3.4782778	3.4924810
9	3.4485517	3.4637437	3.4784222	3.4926207
10	3.4487063	3.4638930	3.4785665	3.4927604
11	3.4488608	3.4640422	3.4787108	3.4929000
12	3.4490153	3.4641914	3.4788550	3.4930396
13	3.4491697	3.4643405	3.4789991	3.4931791
14	3.4493241	3.4644895	3.4791432	3.4933186
15	3.4494784	3.4646386	3.4792873	3.4934580
16	3.4496326	3.4647875	3.4794313	3.4935974
17	3.4497868	3.4649364	3.4795753	3.4937368
18	3.4499410	3.4650853	3.4797192	3.4938761
19	3.4500951	3.4652341	3.4798631	3.4940154
20	3.4502491	3.4653828	3.4800069	3.4941546
21	3.4504031	3.4655316	3.4801507	3.4942938
22	3.4505570	3.4656802	3.4802945	3.4944329
23	3.4507109	3.4658288	3.4804381	3.4945720
24	3.4508647	3.4659774	3.4805818	3.4947110
25	3.4510184	3.4661259	3.4807254	3.4948500
26	3.4511721	3.4662743	3.4808689	3.4949890
27	3.4513258	3.4664227	3.4810124	3.4951279
28	3.4514794	3.4665711	3.4811559	3.4952667
29	3.4516329	3.4667194	3.481299[illegible]	3.4954056
30	3.4517864	3.4668676	3.4814426	3.4955443
31	3.4519399	3.4670158	3.4815859	3.4956831
32	3.4520932	3.4671640	3.4817292	3.4958218
33	3.4522466	3.4673121	3.4818724	3.4959604

	2800.	2900.	3000.	3100.
34	3.4523998	3.4674601	3.4820156	3.4960990
35	3.4525531	3.4676081	3.4821587	3.4962375
36	3.4527062	3.4677560	3.4823018	3.4963761
37	3.4528593	3.4679039	3.4824448	3.4965145
38	3.4530124	3.4680518	3.4825878	3.4966529
39	3.4531654	3.4681996	3.4827307	3.4967913
40	3.4533183	3.4683473	3.4828736	3.4969296
41	3.4534712	3.4684950	3.4830164	3.4970679
42	3.4536241	3.4686427	3.4831592	3.4972062
43	3.4537769	3.4687903	3.4833019	3.4973444
44	3.4539296	3.4689378	3.4834446	3.4974825
45	3.4540823	3.4690853	3.4835873	3.4976206
46	3.4542349	3.4692327	3.4837299	3.4977587
47	3.4543875	3.4693801	3.4838725	3.4978967
48	3.4545400	3.4695275	3.4840150	3.4980347
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38	3.6061663	3.6167905	3.6271610	3.6372895
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53	3.6077766	3.6183619	3.6286954	3.6387887
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62	3.6087399	3.6193021	3.6296134	3.6396857
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63	3.7212334	3.7294078	3.7374312	3.7453091
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95	3.8630253	3.8689382	3.8747716	3.8805278
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4	3.8810421	3.8867163	3.8923173	3.8978469
5	3.8810992	3.8867726	3.8923729	3.8979019
6	3.8811563	3.8868290	3.8924285	3.8979568
7	3.8812134	3.8868854	3.8924842	3.8980117
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9	3.8813276	3.8869980	3.8925954	3.8981216
10	3.8813847	3.8870544	3.8926510	3.8981765
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13	3.8815558	3.8872233	3.8928178	3.8983412
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15	3.8816699	3.8873359	3.8929290	3.8984509
16	3.8817269	3.8873922	3.8929846	3.8985058
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22	3.8820689	3.8877298	3.8933178	3.8988348
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38	3.8829797	3.8886287	3.8942053	3.8997111
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55	3.9847523	3.9892273	3.9936566	3.9980413
56	3.9847973	3.9892718	3.9937007	3.9980849
57	3.9848422	3.9893163	3.9937448	3.9981285
58	3.9848872	3.9893608	3.9937888	3.9981721
59	3.9849322	3.9894053	3.9938329	3.9982157
60	3.9849771	3.9894498	3.9938769	3.9982593
61	3.9850221	3.9894943	3.9939210	3.9983029
62	3.9850670	3.9895388	3.9939650	3.9983465
63	3.9851120	3.9895833	3.9940090	3.9983901
64	3.9851569	3.9896278	3.9940531	3.9984337
65	3.9852019	3.9896722	3.9940971	3.9984773
66	3.9852468	3.9897167	3.9941411	3.9985209
67	3.9852917	3.9897612	3.9941851	3.9985645

	9600.	9700.	9800.	9900.
67	3.9852917	3.9897612	3.9941851	3.9985645
68	3.9853366	3.9898056	3.9942291	3.9986080
69	3.9853816	3.9898501	3.9942731	3.9986516
70	3.9854265	3.9898946	3.9943172	3.9986952
71	3.9854714	3.9899390	3.9943612	3.9987387
72	3.9855163	3.9899835	3.9944051	3.9987823
73	3.9855612	3.9900279	3.9944491	3.9988258
74	3.9856061	3.9900723	3.9944931	3.9988694
75	3.9856510	3.9901168	3.9945371	3.9989129
76	3.9856959	3.9901612	3.9945811	3.9989564
77	3.9857407	3.9902056	3.9946251	3.9990000
78	3.9857856	3.9902500	3.9946690	3.9990435
79	3.9858305	3.9902944	3.9947130	3.9990870
80	3.9858754	3.9903389	3.9947569	3.9991305
81	3.9859202	3.9903833	3.9948009	3.9991741
82	3.9859651	3.9904277	3.9948448	3.9992176
83	3.9860099	3.9904721	3.9948888	3.9992611
84	3.9860548	3.9905164	3.9949327	3.9993046
85	3.9860996	3.9905608	3.9949767	3.9993481
86	3.9861445	3.9906052	3.9950206	3.9993916
87	3.9861893	3.9906496	3.9950645	3.9994350
88	3.9862341	3.9906940	3.9951085	3.9994785
89	3.9862790	3.9907383	3.9951524	3.9995220
90	3.9863238	3.9907827	3.9951963	3.9995655
91	3.9863686	3.9908270	3.9952402	3.9996090
92	3.9864134	3.9908714	3.9952841	3.9996524
93	3.9864582	3.9909158	3.9953280	3.9996959
94	3.9865030	3.9909601	3.9953719	3.9997393
95	3.9865478	3.9910044	3.9954158	3.9997828
96	3.9365926	3.9910488	3.9954597	3.9998262
97	3.9866374	3.9910931	3.9955036	3.9998697
98	3.9866822	3.9911374	3.9955474	3.9999131
99	3.9867270	3.9911818	3.9955913	3.9999566
100	3.9867717	3.9912261	3.9956352	4.0000000

CANON SEXAGENARUM.

Tabula pro ſpecie emergente ex Multipl.

Multiplicandus.

4æ	3æ	2æ	1æ	o	/	//	///	////	Multiplicans.
8æ	7æ	6æ	5æ	4æ	3æ	2æ	1æ	o	4æ
7æ	6æ	5æ	4æ	3æ	2æ	1æ	o	/	3æ
6æ	5æ	4æ	3æ	2æ	1æ	o	/	//	2æ
5æ	4æ	3æ	2æ	1æ	o	/	//	///	1æ
4æ	3æ	2æ	1æ	o	/	//	///	////	o
3æ	2æ	1æ	o	/	//	///	////	V	/
2æ	1æ	o	/	//	///	////	V	V/	//
1æ	o	/	//	///	////	V	V/	V//	///
o	/	//	///	////	V	V/	V//	V///	////

Tabula pro ſpecie emergente ex Diviſ.

Dividendus.

4æ	3æ	2æ	1æ	o	/	//	///	////	Diviſor.
o	/	//	///	////	V	V/	V//	V///	4æ
1æ	o	/	//	///	////	V	V/	V//	3æ
2æ	1æ	o	/	//	///	////	V	V/	2æ
3æ	2æ	1æ	o	/	//	///	////	V	1æ
4æ	3æ	2æ	1æ	o	/	//	///	////	o
5æ	4æ	3æ	2æ	1æ	o	/	//	///	/
6æ	5æ	4æ	3æ	2æ	1æ	o	/	//	//
7æ	6æ	5æ	4æ	3æ	2æ	1æ	o	/	///
8æ	7æ	6æ	5æ	4æ	3æ	2æ	1æ	o	////

	2	3	4	5	6	7	8	9	10	11
1	0. 2	0. 3	0. 4	0. 5	0. 6	0. 7	0. 8	0. 9	0.10	0. 11
2	0. 4	0. 6	0. 8	0.10	0.12	0.14	0.16	0.18	0.20	0. 22
3	0. 6	0. 9	0.12	0.15	0.18	0.21	0.24	0.27	0.30	0. 33
4	0. 8	0.12	0.16	0.20	0.24	0.28	0.32	0.36	0.40	0. 44
5	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.5	0. 55
6	0.12	0.18	0.24	0.30	0.36	0.42	0.48	0.54	1. 0	1. 6
7	0.14	0.21	0.28	0.35	0.42	0.49	0.56	1. 3	1.10	1. 17
8	0.16	0.24	0.32	0.40	0.48	0.56	1. 4	1.12	1.20	1. 28
9	0.18	0.27	0.36	0.45	0.54	1. 3	1.12	1.21	1.30	1. 39
10	0.20	0.30	0.40	0.50	1. 0	1.10	1.20	1.30	1.40	1. 50
11	0.22	0.33	0.44	0.55	1. 6	1.17	1.28	1.39	1.50	2. 1
12	0.24	0.36	0.48	1. 0	1.12	1.24	1.36	1.48	2. 0	2. 12
13	0.26	0.39	0.52	1. 5	1.18	1.31	1.44	1.57	2.10	2. 23
14	0.28	0.42	0.56	1.10	1.24	1.38	1.52	2. 6	2.20	2. 34
15	0.30	0.45	1. 0	1.15	1.30	1.45	2. 0	2.15	2.30	2. 45
16	0.32	0.48	1. 4	1.20	1.36	1.52	2. 8	2.24	2.40	2. 56
17	0.34	0.51	1. 8	1.25	1.42	1.59	2.16	2.33	2.50	3. 7
18	0.36	0.54	1.12	1.30	1.48	2. 6	2.24	2.42	3. 0	3. 18
19	0.38	0.57	1.16	1.35	1.54	2.13	2.32	2.51	3.10	3. 29
20	0.40	1. 0	1.20	1.40	2. 0	2.20	2.40	3. 0	3.20	3. 40
21	0.42	1. 3	1.24	1.45	2. 6	2.27	2.48	3. 9	3.30	3. 51
22	0.44	1. 6	1.28	1.50	2.12	2.34	2.56	3.18	3.40	4. 2
23	0.46	1. 9	1.32	1.55	2.18	2.41	3. 4	3.27	3.50	4. 13
24	0.48	1.12	1.36	2. 0	2.24	2.48	3.12	3.36	4. 0	4. 24
25	0.50	1.15	1.40	2. 5	2.30	2.55	3.20	3.45	4.10	4. 35
26	0.52	1.18	1.44	2.10	2.36	3. 2	3.28	3.54	4.20	4. 46
27	0.54	1.21	1.48	2.15	2.42	3. 9	3.36	4. 3	4.30	4. 57
28	0.56	1.24	1.52	2.20	2.48	3.16	3.44	4.12	4.40	5. 8
39	0.58	1.27	1.56	2.25	2.54	3.23	3.52	4.21	4.50	5. 1
30	1.30	2.30	2. 0	2.30	3. 0	3.30	4. 0	4.30	5. 0	5. 30
	2	3	4	5	6	7	8	9	10	11

	2	3	4	5	6	7	8	9	10	11
31	1. 2	1.33	2. 4	2.35	3. 6	3.37	4. 8	4.39	5.10	5.41
32	1. 4	1.36	2. 8	2.40	3.12	3.44	4.16	4.48	5.20	5.52
33	1. 6	1.39	2.12	2.45	3.18	3.51	4.24	4.57	5.30	6. 3
34	1. 8	1.42	2.16	2.50	3.24	3.58	4.32	5. 6	5.40	6.14
35	1.10	1.45	2.20	2.55	3.30	4. 5	4.40	5.15	5.50	6.25
36	1.12	1.48	2.24	3. 0	3.36	4.12	4.48	5.24	6. 0	6.36
37	1.14	1.51	2.28	3. 5	3.42	4.19	4.56	5.33	6.10	6.47
38	1.16	1.54	2.32	3.10	3.48	4.26	5. 4	5.42	6.20	6.58
39	1.18	1.57	2.36	3.15	3.54	4.33	5.12	5.51	6.30	7. 9
40	1.20	2. 0	2.40	3.20	4. 0	4.40	5.20	6. 0	6.40	7.20
41	1.22	2. 3	2.44	3.25	4. 6	4.47	5.28	6. 9	6.50	7.31
42	1.24	2. 6	2.48	3.30	4.12	4.54	5.36	6.18	7. 0	7.42
43	1.26	2. 9	2.52	3.35	4.18	5. 1	5.44	6.27	7.10	7.53
44	1.28	2.12	2.56	3.40	4.24	5. 8	5.52	6.36	7.20	8. 4
45	1.30	2.15	3. 0	3.45	4.30	5.15	6. 0	6.45	7.30	8.15
46	1.32	2.18	3. 4	3.50	4.36	5.22	6. 8	6.54	7.40	8.26
47	1.34	2.21	3. 8	3.55	4.42	5.29	6.16	7. 3	7.50	8.37
48	1.36	2.24	3.12	4. 0	4.48	5.36	6.24	7.12	8. 0	8.48
49	1.38	2.27	3.16	4. 5	4.54	5.43	6.32	7.21	8.10	8.59
50	1.40	2.30	3.20	4.10	5. 0	5.50	6.40	7.30	8.20	9.10
51	1.42	2.33	3.24	4.15	5. 6	5.57	6.48	7.39	8.30	9.21
52	1.44	2.36	3.28	4.20	5.12	6. 4	6.56	7.48	8.40	9.32
53	1.46	2.39	3.32	4.25	5.18	6.11	7. 4	7.57	8.50	9.43
54	1.48	2.42	3.36	4.30	5.24	6.18	7.12	8. 6	9. 0	9.54
55	1.50	2.45	3.40	4.35	5.30	6.25	7.20	8.15	9.10	10. 5
56	1.52	2.48	3.44	4.40	5.36	6.32	7.28	8.24	9.20	10.16
57	1.54	2.51	3.48	4.45	5.42	6.39	7.36	8.33	9.30	10.27
58	1.56	2.54	3.52	4.50	5.48	6.46	7.44	8.42	9.40	10.38
59	1.58	2.57	3.56	4.55	5.54	6.53	7.52	8.51	9.50	10.49
60	2. 0	3. 0	4. 0	5. 0	6. 0	7. 0	8. 0	9. 0	10. 0	11. 0
	2	3	4	5	6	7	8	9	10	11

CANON SEXA-

	12	13	14	15	16	17	18	19
1	0. 12	0. 13	0. 14	0. 15	0. 16	0. 17	0. 18	0. 19
2	0. 24	0. 26	0. 28	0. 30	0. 32	0. 34	0. 36	0. 38
3	0. 36	0. 39	0. 42	0. 45	0. 48	0. 51	0. 54	0. 57
4	0. 48	0. 52	0. 56	1. 0	1. 4	1. 8	1. 12	1. 16
5	1. 0	1. 5	1. 10	1. 15	1. 20	1. 25	1. 30	1. 35
6	1. 12	1. 18	1. 24	1. 30	1. 36	1. 42	1. 48	1. 54
7	1. 24	1. 31	1. 38	1. 45	1. 52	1. 59	2. 6	2. 13
8	1. 36	1. 44	1. 52	2. 0	2. 8	2. 16	2. 24	2. 32
9	1. 48	1. 57	2. 6	2. 15	2. 24	2. 33	2. 42	2. 51
10	2. 0	2. 10	2. 20	2. 30	2. 40	2. 50	3. 0	3. 10
11	2. 12	2. 23	2. 34	2. 45	2. 56	3. 7	3. 18	3. 29
12	2. 24	2. 36	2. 48	3. 0	3. 12	3. 24	3. 36	3. 48
13	2. 36	2. 49	3. 2	3. 15	3. 28	3. 41	3. 54	4. 7
14	2. 48	3. 2	3. 16	3. 30	3. 44	3. 58	4. 12	4. 26
15	3. 0	3. 15	3. 30	3. 45	4. 0	4. 15	4. 30	4. 45
16	3. 12	3. 28	3. 44	4. 0	4. 16	4. 32	4. 48	5. 4
17	3. 24	3. 41	3. 58	4. 15	4. 32	4. 49	5. 6	5. 23
18	3. 36	3. 54	4. 12	4. 30	4. 48	5. 6	5. 24	5. 42
19	3. 48	4. 7	4. 26	4. 45	5. 4	5. 23	5. 42	6. 1
20	4. 0	4. 20	4. 40	5. 0	5. 20	5. 40	6. 0	6. 20
21	4. 12	4. 33	4. 54	5. 15	5. 36	5. 57	6. 18	6. 39
22	4. 24	4. 46	5. 8	5. 30	5. 52	6. 14	6. 36	6. 58
23	4. 36	4. 59	5. 22	5. 45	6. 8	6. 31	6. 54	7. 17
24	4. 48	5. 12	5. 36	6. 0	6. 24	6. 48	7. 12	7. 36
25	5. 0	5. 25	5. 50	6. 15	6. 40	7. 5	7. 30	7. 55
26	5. 12	5. 38	6. 4	6. 30	6. 56	7. 22	7. 48	8. 14
27	5. 24	5. 51	6. 18	6. 45	7. 12	7. 39	8. 6	8. 33
28	5. 36	6. 4	6. 32	7. 0	7. 28	7. 56	8. 24	8. 52
29	5. 48	6. 17	6. 46	7. 15	7. 44	8. 13	8. 42	9. 11
30	6 0	6. 30	7. 0	7. 30	8. 0	8. 30	9. 0	9. 30

12 13 14 15 16 17 18 19

	12	13	14	15	16	17	18	19
31	6. 12	6. 43	7. 14	7. 45	8. 16	8. 47	9. 18	9. 49
32	6. 24	6. 56	7. 28	8. 0	8. 32	9. 4	9. 36	10. 8
33	6. 36	7. 9	7. 42	8. 15	8. 48	9. 21	9. 54	10.27
34	6. 48	7. 22	7. 56	8. 30	9. 4	9. 38	10.12	10.46
35	7. 0	7. 35	8. 10	8. 45	9. 20	9. 55	10.30	11. 5
36	7. 12	7. 48	8. 24	9. 0	9. 36	10.12	10.48	11.24
37	7. 24	8. 1	8. 38	9. 15	9. 52	10.29	11. 6	11.43
38	7. 36	8. 14	8. 52	9. 30	10. 8	10.46	11.24	12. 2
39	7. 48	8. 27	9. 6	9. 45	10.24	11. 3	11.42	12.21
40	8. 0	8. 40	9. 20	10. 0	10.40	11.20	12. 0	12.40
41	8. 12	8. 53	9. 34	10.15	10.56	11.37	12.18	12.59
42	8. 24	9. 6	9. 48	10.30	11.12	11.54	12.36	13.18
43	8. 36	9. 19	10. 2	10.45	11.28	12.11	12.54	13.37
44	8. 48	9. 32	10.16	11. 0	11.44	12.28	13.12	13.56
45	9. 0	9. 45	10.30	11.15	12. 0	12.45	13.30	14.15
46	9. 12	9. 58	10.44	11.30	12.16	13. 2	13.48	14.34
47	9. 24	10.11	10.58	11.45	12.32	13.19	14. 6	14.53
48	9. 36	10.24	11.12	12. 0	12.48	13.36	14.24	15.12
49	9. 48	10.37	11.26	12.15	13. 4	13.53	14.42	15.31
50	10. 0	10.50	11.40	12.30	13.20	14.10	15. 0	15.50
51	10.12	10. 3	11.54	12.45	13.36	14.27	15.18	16. 9
52	10.24	11.16	12. 8	13. 0	13.52	14.44	15.36	16.28
53	10.36	11.29	12.22	13.15	14. 8	15. 1	15.54	16.47
54	10.48	11.42	12.36	13.30	14.24	15.18	16.12	17. 6
55	11. 0	11.55	12.50	13.45	14.40	15.35	16.30	17.25
56	11.12	12. 8	13. 4	14. 0	14.56	15.52	16.48	17.44
57	11.24	12.21	13.18	14.15	15.12	16. 9	17. 6	18. 3
58	11.36	12.34	13.32	14.30	15.28	16.26	17.24	18.22
59	11.48	12.47	13.46	14.45	15.44	16.43	17.42	18.41
60	12. 0	13. 0	14. 0	15. 0	16. 0	17. 0	18. 0	19. 0
	12	12	14	15	16	17	18	19

	20	21	22	23	24	25	26	27
1	0. 20	0. 21	0. 22	0. 23	0. 24	0. 25	0. 26	0. 27
2	0. 40	0. 42	0. 44	0. 46	0. 48	0. 50	0. 52	0. 54
3	1. 0	1. 3	1. 6	1. 9	1. 12	1. 15	1. 18	1. 21
4	1. 20	1. 24	1. 28	1. 32	1. 36	1. 40	1. 44	1. 48
5	1. 40	1. 45	1. 50	1. 55	2. 0	2. 5	2. 10	2. 15
6	2. 0	2. 6	2. 12	2. 18	2. 24	2. 30	2. 36	2. 42
7	2. 20	2. 27	2. 34	2. 41	2. 48	2. 55	3. 2	3. 9
8	2. 40	2. 48	2. 56	3. 4	3. 12	3. 20	3. 28	3. 36
9	3. 0	3. 9	3. 18	3. 27	3. 36	3. 45	3. 54	4. 3
10	3. 20	3. 30	3. 40	3. 50	4. 0	4. 10	4. 20	4. 30
11	3. 40	3. 51	4. 2	4. 13	4. 24	4. 35	4. 46	4. 57
12	4. 0	4. 12	4. 24	4. 36	4. 48	5. 0	5. 12	5. 24
13	4. 20	4. 33	4. 46	4. 59	5. 12	5. 25	5. 38	5. 51
14	4. 40	4. 54	5. 8	5. 22	5. 36	5. 50	6. 4	6. 18
15	5. 0	5. 15	5. 30	5. 45	6. 0	6. 15	6. 30	6. 45
16	5. 20	5. 36	5. 52	6. 8	6. 24	6. 40	6. 56	7. 12
17	5. 40	5. 57	6. 14	6. 31	6. 48	7. 5	7. 22	7. 39
18	6. 0	6. 18	6. 36	6. 54	7. 12	7. 30	7. 48	8. 6
19	6. 20	6. 39	6. 58	7. 17	7. 36	7. 55	8. 14	8. 33
20	6. 40	7. 0	7. 20	7. 40	8. 0	8. 20	8. 40	9. 0
21	7. 0	7. 21	7. 42	8. 3	8. 24	8. 45	9. 6	9. 27
22	7. 20	7. 42	8. 4	8. 26	8. 48	9. 10	9. 32	9. 54
23	7. 40	8. 3	8. 26	8. 49	9. 12	9. 35	9. 58	10. 21
24	8. 0	8. 24	8. 48	9. 12	9. 36	10. 0	10. 24	10. 48
25	8. 20	8. 45	9. 10	9. 35	10. 0	10. 25	10. 50	11. 15
26	8. 40	9. 6	9. 32	9. 58	10. 24	10. 50	11. 16	11. 42
27	9. 0	9. 27	9. 54	10. 21	10. 48	11. 15	11. 42	12. 9
28	9. 20	9. 48	10. 16	10. 44	11. 12	11. 40	12. 8	12. 36
29	9. 40	10. 9	10. 38	11. 7	11. 36	12. 5	12. 34	13. 3
30	10. 0	10. 30	11. 0	11. 30	12. 0	12. 30	13. 0	13. 30
	20	21	22	23	24	25	26	27

	20	21	22	23	24	25	26	27
31	10.20	10.51	11.22	11.53	12.24	12.55	13.26	13.57
32	10.40	11.12	11.44	12.16	12.48	13.20	13.52	14.24
33	11. 0	11.33	12. 6	12.39	13.12	13.45	14.18	14.51
34	11.20	11.54	12.28	13. 2	13.36	14.10	14.44	15.18
35	11.40	12.15	12.50	13.25	14. 0	14.35	15.10	15.45
36	12. 0	12.36	13.12	13.48	14.24	15. 0	15.36	16.12
37	12.20	12.57	13.34	14.11	14.48	15.25	16. 2	16.39
38	12.40	13.18	13.56	14.34	15.12	15.50	16.28	17. 6
39	13. 0	13.39	14.18	14.57	15.36	16.15	16.54	17.33
40	13.20	14. 0	14.40	15.20	16. 0	16.40	17.20	18. 0
41	13.40	14.21	15. 2	15.43	16.24	17. 5	17.46	18.27
42	14. 0	14.42	15.24	16. 6	16.48	17.30	18.12	18.54
43	14.20	15. 3	15.46	16.29	17.12	17.55	18.38	19.21
44	14.40	15.24	16. 8	16.52	17.36	18.20	19. 4	19.48
45	15. 0	15.45	16.30	17.15	18. 0	18.45	19.30	20.15
46	15.20	16. 6	16.52	17.38	18.24	19.10	19.56	20.42
47	15.40	16.27	17.14	18. 1	18.48	19.35	20.22	21. 9
48	16. 0	16.48	17.36	18.24	19.12	20. 0	20.48	21.36
49	16.20	17. 9	17.58	18.47	19.36	20.25	21.14	22. 3
50	16.40	17.30	18.20	19.10	20. 0	20.50	21.40	22.30
51	17. 0	17.51	18.42	19.33	20.24	21.15	22. 6	22.57
52	17.20	18.12	19. 4	19.56	20.48	21.40	22.32	23.24
53	17.40	18.33	19.26	20.19	21.12	22. 5	22.58	23.51
54	18. 0	18.54	19.48	20.42	21.36	22.30	23.24	24.18
55	18.20	19.15	20.10	21. 5	22. 0	22.55	23.50	24.45
56	18.40	19.36	20.32	21.28	22.24	23.20	24.16	25.12
57	19. 0	19.57	20.54	21.51	22.48	23.45	24.42	25.39
58	19.20	20.18	21.16	22.14	23.12	24.10	25. 8	26. 6
59	19.40	20.39	21.38	22.37	23.36	24.35	25.34	26.33
60	20. 0	21. 0	22. 0	23. 0	24. 0	25. 0	26. 0	27. 0
	20	21	22	23	24	25	26	27

	28	29	30	31	32	33	34	35
1	0. 28	0. 29	0. 30	0. 31	0. 32	0. 33	0. 34	0. 35
2	0. 56	0. 58	1. 0	1. 2	1. 4	1. 6	1. 8	1. 10
3	1. 24	1. 27	1. 30	1. 33	1. 36	1. 39	1. 42	1. 45
4	1. 52	1. 56	2. 0	2. 4	2. 8	2. 12	2. 16	2. 20
5	2. 20	2. 25	2. 30	2. 35	2. 40	2. 45	2. 50	2. 55
6	2. 48	2. 54	3. 0	3. 6	3. 12	3. 18	3. 24	3. 30
7	3. 16	3. 23	3. 30	3. 37	3. 44	3. 51	3. 58	4. 5
8	3. 44	3. 52	4. 0	4. 8	4. 16	4. 24	4. 32	4. 40
9	4. 12	4. 21	4. 30	4. 39	4. 48	4. 57	5. 6	5. 15
10	4. 40	4. 50	5. 0	5. 10	5. 20	5. 30	5. 40	5. 50
11	5. 8	5. 19	5. 30	5. 41	5. 52	6. 3	6. 14	6. 25
12	5. 36	5. 48	6. 0	6. 12	6. 24	6. 36	6. 48	7. 0
13	6. 4	6. 17	6. 30	6. 43	6. 56	7. 9	7. 22	7. 35
14	6. 32	6. 46	7. 0	7. 14	7. 28	7. 42	7. 56	8. 10
15	7. 0	7. 15	7. 30	7. 45	8. 0	8. 15	8. 30	8. 45
16	7. 28	7. 44	8. 0	8. 16	8. 32	8. 48	9. 4	9. 20
17	7. 56	8. 13	8. 30	8. 47	9. 4	9. 21	9. 38	9. 55
18	8. 24	8. 42	9. 0	9. 18	9. 36	9. 54	10.12	10.30
19	8 52	9. 11	9. 30	9. 49	10. 8	10.27	10.46	11. 5
20	9. 20	9. 40	10. 0	10.20	10.40	11. 0	11.20	11.40
21	9. 48	10. 9	10.30	10.51	11.12	11.33	11.54	12.15
22	10.16	10.38	11. 0	11.22	11.44	12. 6	12.28	12.50
23	10.44	11. 7	11.30	11.53	12.16	12.39	13. 2	13.25
24	11.12	11.36	12. 0	12.24	12.48	13.12	13.36	14. 0
25	11.40	12. 5	12.30	12.55	13.20	13.45	14.10	14.35
26	12. 8	12.34	13. 0	13.26	13.52	14.18	14.44	15.10
27	12.36	13. 3	13.30	13.57	14.24	14.51	15.18	15.45
28	13. 4	13.32	14. 0	14.28	14.56	15.24	15.52	16.20
29	13.32	14. 1	14.30	14.59	15.28	15.57	16.26	16.55
30	4 0	14.30	15. 0	15.30	16. 0	16.30	17. 0	17.30
	28	29	30	31	32	33	34	35

	28.	29	30	31	32	33	34	35
31	14.28	14.59	15.30	16. 1	16.32	17. 3	17.34	18. 5
32	14.56	15.28	16. 0	16.32	17. 4	17.36	18. 8	18.40
33	15.24	15.57	16.30	17. 3	17.36	18. 9	18.42	19.15
34	15.52	16.26	17. 0	17.34	18. 8	18.42	19.16	19.50
35	16.20	16.55	17.30	18. 5	18.40	19.15	19.50	20.25
36	16.48	17.24	18. 0	18.36	19.12	19.48	20.24	21. 0
37	17.16	17.53	18.30	19. 7	19.44	20.21	20.58	21.35
38	17.44	18.22	19. 0	19.38	20.16	20.54	21.32	22.10
39	18.12	18.51	19.30	20. 9	20.48	21.27	22. 6	22.45
40	18.40	19.20	20. 0	20.40	21.20	22. 0	22.40	23.20
41	19. 8	19.49	20.30	21.11	21.52	22.33	23.14	23.55
42	19.36	20.18	21. 0	21.24	22.24	23. 6	23.48	24.30
43	20. 4	20.47	21.30	22.13	22.56	23.39	24.22	25. 5
44	20.32	21.16	22. 0	22.44	23.28	24.12	24.56	25.40
45	21.. 0	21.45	22.30	23.15	24. 0	24.45	25.30	26.15
46	21.28	22.14	23. 0	23.46	24.32	25.18	26. 4	26.50
47	21.56	22.43	23.30	24.17	25. 4	25.51	26.38	27.25
48	22.24	23.12	24. 0	24.48	25.36	26.24	27.12	28. 0
49	22.52	23.41	24.30	25.19	26. 8	26.57	27.46	28.35
50	23.20	24.10	25. 0	25.50	26.40	27.30	28.20	29.10
51	23.48	24.39	25.30	26.21	27.12	28. 3	28.54	29.45
52	24.16	25. 8	26. 0	26.52	27.44	28.36	29.28	30.20
53	24.44	25.37	26.30	27.23	28.16	29. 9	30. 2	30.55
54	25.12	26. 6	27. 0	27.54	28.48	29.42	30.36	31.30
55	25.40	26.35	27.30	28.25	29.20	30.15	31.10	32. 5
56	26. 8	27. 4	28. 0	28.56	29.52	30.48	31.44	32.40
57	26.36	27.33	28.30	29.27	30.24	31.21	32.18	33.15
58	27. 4	28. 2	29. 0	29.58	30.56	31.54	32.52	33.50
59	27.32	28.31	29.30	30.29	31.28	32.27	33.26	34.25
60	28. 0	29. 0	30. 0	3.. 0	32. 0	33. 0	34. 0	35. 0
	28	29	30	31	32	33	34	35

	36	37	38	39	40	41	42	43
1	0. 36	0. 37	0. 38	0. 39	0. 40	0. 41	0. 42	0. 43
2	1. 12	1. 14	1. 16	1. 18	1. 20	1. 22	1. 24	1. 26
3	1. 48	1. 51	1. 54	1. 57	2. 0	2. 3	2. 6	2. 9
4	2. 24	2. 28	2. 32	2. 36	2. 40	2. 44	2. 48	2. 52
5	3. 0	3. 5	3. 10	3. 15	3. 20	3. 25	3. 30	3. 35
6	3. 36	3. 42	3. 48	3. 54	4. 0	4. 6	4. 12	4. 18
7	4. 12	4. 19	4. 26	4. 33	4. 40	4. 47	4. 54	5. 1
8	4. 48	4. 56	5. 4	5. 12	5. 20	5. 28	5. 36	5. 44
9	5. 24	5. 33	5. 42	5. 51	6. 0	6. 9	6. 18	6. 27
10	6. 0	6. 10	6. 20	6. 30	6. 40	6. 50	7. 0	7. 10
11	6. 36	6. 47	6. 58	7. 9	7. 20	7. 31	7. 42	7. 53
12	7. 12	7. 24	7. 36	7. 48	8. 0	8. 12	8. 24	8. 36
13	7. 48	8. 1	8. 14	8. 27	8. 40	8. 53	9. 6	9. 19
14	8. 24	8. 38	8. 52	9. 6	9. 20	9. 34	9. 48	10. 2
15	9. 0	9. 15	9. 30	9. 45	10. 0	10.15	10.30	10.45
16	9. 36	9. 52	10. 8	10.24	10.40	10.56	11.12	11.28
17	10. 12	10.29	10.46	11. 3	11.20	11.37	11.54	12.11
18	10.48	11. 6	11.24	11.42	12. 0	12.18	12.36	12.54
19	11. 24	11. 43	12. 2	12.21	12.40	12.59	13.18	13.37
20	12. 0	12.20	12.40	13. 0	13.20	13.40	14. 0	14.20
21	12. 36	12. 57	13.18	13.39	14. 0	14.21	14.42	15. 3
22	13. 12	13. 34	13.56	14.18	14.40	15. 2	15.24	15.46
23	13. 48	14. 11	14.34	14.57	15.20	15.43	16. 6	16.29
24	14. 24	14. 48	15.12	15.36	16. 0	16.24	16.48	17.12
25	15. 0	15.25	15.50	16.15	16.40	17. 5	17.30	17.55
26	15. 36	16. 2	16.28	16.54	17.20	17.46	18.12	18.38
27	16. 12	16.39	17. 6	17.33	18. 0	18.27	18.54	19.21
28	16. 48	17. 16	17.44	18.12	18.40	19. 8	19.36	20. 4
29	17. 24	17. 53	18.22	18.51	19.20	19.49	20.18	20.47
30	18. 0	18. 30	19. 0	19.30	20. 0	20.30	21. 0	21.30
	36	37	38	39	40	41	42	43

	36	37	38	39	40	41	42	43
31	18.36	19. 7	19.38	20. 9	20.40	21. 11	21.42	22.13
32	19. 12	19.44	20.16	20.48	21.20	21.52	22.24	22.56
33	19.48	20.21	20.54	21.27	22. 0	22.33	23. 6	23.39
34	20.24	20.58	21.32	22. 6	22.40	23.14	23.48	24.22
35	21. 0	21.35	22.10	22.45	23.20	23.55	24.30	25. 5
36	21.36	22.12	22.48	23.24	24. 0	24.36	25.12	25.48
37	22.12	22.49	23.26	24. 3	24.40	25.17	25.54	26.31
38	22.48	23.26	24. 4	24.42	25.20	25.58	26.36	27.14
39	23.24	24. 3	24.42	25.21	26. 0	26.39	27.18	27.57
40	24. 0	24.40	25.20	26. 0	26.40	27.20	28. 0	28.40
41	24.36	25.17	25.58	26.39	27.20	28. 1	28.42	29.23
42	25.12	25.54	26.36	27.18	28. 0	28.42	29.24	30. 6
43	25.48	26.31	27.14	27.57	28.40	29.23	30. 6	30.49
44	26.24	27. 8	27.52	28.36	29.20	30. 4	30.48	31.32
45	27. 0	27.45	28.30	29.15	30. 0	30.45	31.30	32.15
46	27.36	28.22	29. 8	29.54	30.40	31.26	32.12	32.58
47	28.12	28.59	29.46	30.33	31.20	32. 7	32.54	33.41
48	28.48	29.36	30.24	31.12	32. 0	32.48	33.36	34.24
49	29.24	30.13	31. 2	31.51	32.40	33.29	34.18	35. 7
50	30. 0	30.50	31.40	32.30	33.20	34.10	35. 0	35.50
51	30.36	31.27	32.18	33. 9	34. 0	34.51	35.42	36.33
52	31.12	32. 4	32.56	33.48	34.40	35.32	36.24	37.16
53	31.48	32.41	33.34	34.27	35.20	36.13	37. 6	37.59
54	32.24	33.18	34.12	35. 6	36. 0	36.54	37.48	38.42
55	33. 0	33.55	34.50	35.45	36.40	37.35	38.30	39.25
56	33.36	34.32	35.28	36.24	37.20	38.16	39.12	40. 8
57	34.12	35. 9	36. 6	37. 3	38. 0	38.57	39.54	40.51
58	34.48	35.46	36.44	37.42	38.40	39.38	40.36	41.34
59	35.24	36.23	37.22	38.21	39.20	40.19	41.18	42.17
60	36. 0	37. 0	38. 0	39. 0	40. 0	41. 0	42. 0	43. 0
	36	37	38	39	40	41	42	43

	44	45	46	47	48	49	50	51
1	0. 44	0. 45	0. 46	0. 47	0. 48	0. 49	0. 50	0. 51
2	1. 28	1. 30	1. 32	1. 34	1. 36	1. 38	1. 40	1. 42
3	2. 12	2. 15	2. 18	2. 21	2. 24	2. 27	2. 30	2. 33
4	2. 56	3. 0	3. 4	3. 8	3. 12	3. 16	3. 20	3. 24
5	3. 40	3. 45	3. 50	3. 55	4. 0	4. 5	4. 10	4. 15
6	4. 24	4. 30	4. 36	4. 42	4. 48	4. 54	5. 0	5. 6
7	5. 8	5. 15	5. 22	5. 29	5. 36	5. 43	5. 50	5. 57
8	5. 52	6. 0	6. 8	6. 16	6. 24	6. 32	6. 40	6. 48
9	6. 36	6. 45	6. 54	7. 3	7. 12	7. 21	7. 30	7. 39
10	7. 20	7. 30	7. 40	7. 50	8. 0	8. 10	8. 20	8. 30
11	8. 4	8. 15	8. 26	8. 37	8. 48	8. 59	9. 10	9. 21
12	8. 48	9. 0	9. 12	9. 24	9. 36	9. 48	10. 0	10.12
13	9. 32	9. 45	9. 58	10.11	10.24	10.37	10.50	11. 3
14	10.16	10.30	10.44	10.58	11.12	11.26	11.40	11.54
15	11. 0	11.15	11.30	11.45	12. 0	12.15	12.30	12.45
16	11.44	12. 0	12.16	12.32	12.48	13. 4	13.20	13.36
17	12.28	12.45	13. 2	13.19	13.36	13.53	14.10	14.27
18	13.12	13.30	13.48	14. 6	14.24	14.42	15. 0	15.18
19	13.56	14.15	14.34	14.53	15.12	15.31	15.50	16. 9
20	14.40	15. 0	15.20	15.40	16. 0	16.20	16.40	17. 0
21	15.24	15.45	16. 6	16.27	16.48	17. 9	17.30	17.51
22	16. 8	16.30	16.52	17.14	17.36	17.58	18.20	18.42
23	16.52	17.15	17.38	18. 1	18.24	18.47	19.10	19.33
24	17.36	18. 0	18.24	18.48	19.12	19.36	20. 0	20.24
25	18.20	18.45	19.10	19.35	20. 0	20.25	20.50	21.15
26	19. 4	19.30	19.56	20.22	20.48	21.14	21.40	22. 6
27	19.48	20.15	20.42	21. 9	22.36	22. 3	22.30	22.57
28	20.32	21. 0	21.28	21.56	22.24	22.52	23.20	23.48
29	21.16	21.45	22.14	22.43	23.12	23.41	24.10	24.39
30	22. 0	22.30	23. 0	23.30	24. 0	24.30	25. 0	25.30
	44	45	46	47	48	49	50	51

	44	45	46	47	48	49	50	51
31	22.44	23.15	23.46	24.17	24.48	25.19	25.50	26.21
32	23.28	24. 0	24.32	25. 4	25.36	26. 8	26.40	27.12
33	24.12	24.45	25.18	25.51	26.24	26.57	27.30	28. 3
34	24.56	25.30	26. 4	26.38	27.12	27.46	28.20	28.54
35	25.40	26.15	26.50	27.25	28. 0	28.35	29.10	29.45
36	26.24	27. 0	27.36	28.12	28.48	29.24	30. 0	30.36
37	27. 8	27.45	28.22	28.59	29.36	30.13	30.50	31.27
38	27.52	28.30	29. 8	29.46	30.24	31. 2	31.40	32.18
39	28.36	29.15	29.54	30.33	31.12	31.51	32.30	33. 9
40	29.20	30. 0	30.40	31.20	32. 0	32.40	33.20	34. 0
41	30. 4	30.45	31.26	32. 7	32.48	33.29	34.10	34.51
42	30.48	31.30	32.12	32.54	33.36	34.18	35. 0	35.42
43	31.32	32.15	32.58	33.41	34.24	35. 7	35.50	36.33
44	32.16	33. 0	33.44	34.28	35.12	35.56	36.40	37.24
45	33. 0	33.45	34.30	35.15	36. 0	36.45	37.30	38.15
46	33.44	34.30	35.16	36. 2	36.48	37.34	38.20	39. 6
47	34.28	35.15	36. 2	36.49	37.36	38.23	39.10	39.57
48	35.12	36. 0	36.48	37.36	38.24	39.12	40. 0	40.48
49	35.56	36.45	37.34	38.23	39.12	40. 1	40.50	41.39
50	36.40	37.30	38.20	39.10	40. 0	40.50	41.40	42.30
51	37.24	38.15	39. 6	39.57	40.48	41.39	42.30	43.21
52	38. 8	39. 0	39.52	40.44	41.36	42.28	43.20	44.12
53	38.52	39.45	40.38	41.31	42.24	43.17	44.10	45. 3
54	39.36	40.30	41.24	42.18	43.12	44. 6	45. 0	45.54
55	40.20	41.15	42.10	43. 5	44. 0	44.55	45.50	46.45
56	41. 4	42. 0	42.56	43.52	44.48	45.44	46.40	47.36
57	41.48	42.45	43.42	44.39	45.36	46.33	47.30	48.27
58	42.32	43.30	44.28	45.26	46.24	47.22	48.20	49.18
59	43.16	44.15	45.14	46.13	47.12	48.11	49.10	50. 9
60	44. 0	45. 0	46. 0	47. 0	48. 0	49. 0	50. 0	51. 0
	44	45	46	47	48	49	50	51

	52	53	54	55	56	57	58	59
1	0. 52	0. 53	0. 54	0. 55	0. 56	0. 57	0. 58	0. 59
2	1. 44	1. 46	1. 48	1. 50	1. 52	1. 54	1. 56	1. 58
3	2. 36	2. 39	2. 42	2. 45	2. 48	2. 51	2. 54	2. 57
4	3. 28	3. 32	3. 36	3. 40	3. 44	3. 48	3. 52	3. 56
5	4. 20	4. 25	4. 30	4. 35	4. 40	4. 45	4. 50	4. 55
6	5. 12	5. 18	5. 24	5. 30	5. 36	5. 42	5. 48	5. 54
7	6. 4	6. 11	6. 18	6. 25	6. 32	6. 39	6. 46	6. 53
8	6. 56	7. 4	7. 12	7. 20	7. 28	7. 36	7. 44	7. 52
9	7. 48	7. 57	8. 6	8. 15	8. 24	8. 33	8. 42	8. 51
10	8. 40	8. 50	9. 0	9. 10	9. 20	9. 30	9. 40	9. 50
11	9. 32	9. 43	9. 54	10. 5	10.16	10. 27	10. 38	10.49
12	10.24	10.36	10.48	11. 0	11.12	11. 2[illegible]	11. 36	11. 48
13	11.16	11.29	11.42	11.55	12. 8	12. 21	12. 34	12.47
14	12. 8	12.22	12.36	12.50	13. 4	13. 18	13. 32	13.46
15	13. 0	13.15	13.30	13.45	14. 0	14. 15	14. 30	14.45
16	13.52	14. 8	14.24	14.40	14.56	15. 12	15. 28	15.44
17	14.44	15. 1	15.18	15.35	15.52	16. 09	16. 26	16.43
18	15.36	15.54	16.12	16.30	16.48	17. 6	17. 24	17.42
19	16.28	16.47	17. 6	17.25	17.44	18. 3	18. 22	18. 41
20	17.20	17.40	18. 0	18.20	18.40	19. 0	19. 20	19.40
21	18.12	18 33	18.54	19.15	19.36	19. 57	20. 18	20.39
22	19. 4	19.26	19.48	20.10	20.32	20.54	21. 16	21.38
23	19.56	20.19	20.42	21. 5	21.28	21. 51	22.14	22.37
24	20.48	21.12	21.36	22. 0	22.24	22.48	23.12	23.36
25	21.40	22. 5	22.30	22.55	23.20	23.45	24. 10	24.35
26	22.32	22.58	23.24	23.50	24.16	24.42	25. 8	25.34
27	23.24	23.51	24.18	24.45	25.12	25.39	26. 6	26.33
28	24.16	24.44	25.12	25.40	26. 8	26.36	27. 4	27.32
29	25. 8	25.37	26. 6	26.35	27. 4	27.33	28. 2	28.31
30	26. 0	26.30	27. 0	27.30	28. 0	28.30	29. 0	29.30
	52	53	54	55	56	57	58	59

	52	53	54	55	56	57	58	59
31	26.52	27.23	27.54	28.25	28.56	29.27	29.58	30.29
32	27.44	28.16	28.48	29.20	29.52	30.24	30.56	31.28
33	28.36	29. 9	29.42	30.15	30.48	31.21	31.54	32.27
34	29.28	30. 2	30.36	31.10	31.44	32.18	32.52	33.26
35	30.20	30.55	31.30	32. 5	32.40	33.15	33.50	34.25
36	31.12	31.48	32.24	33. 0	33.36	34.12	34.48	35.24
37	32. 4	32.41	33.18	33.55	34.32	35. 9	35.46	36.23
38	32.56	33.34	34.12	34.50	35.28	36. 6	36.44	37.22
39	33.48	34.27	35. 6	35.45	36.24	37. 3	37.42	38.21
40	34.40	35.20	36. 0	36.40	37.20	38. 0	38.40	39.20
41	35.32	36.13	36.54	37.35	38.16	38.57	39.38	40.19
42	36.24	37. 6	37.48	38.30	39.12	39.54	40.36	41.18
43	37.16	37.59	38.42	39.25	40. 8	40.51	41.34	42.17
44	38. 8	38.52	39.36	40.20	41. 4	41.48	42.32	43.16
45	39. 0	39.45	40.30	41.15	42. 0	42.45	43.30	44.15
46	39.52	40.38	41.24	42.10	42.56	43.42	44.28	45.14
47	40.44	41.31	42.18	43. 5	43.52	44.39	45.26	46.13
48	41.36	42.24	43.12	44. 0	44.48	45.36	46.24	47.12
49	42.28	43.17	44. 6	44.55	45.44	46.33	47.22	48.11
50	43.20	44.10	45. 0	45.50	46.40	47.30	48.20	49.10
51	44.12	45. 3	45.54	46.45	47.36	48.27	49.18	50. 9
52	45. 4	45.56	46.48	47.40	48.32	49.24	50.16	51. 8
53	45.56	46.49	47.42	48.35	49.28	50.21	51.14	52. 7
54	46.48	47.42	48.36	49.30	50.24	51.18	52.12	53. 6
55	47.40	48.35	49.30	50.25	51.20	52.15	53.10	54. 5
56	48.32	49.28	50.24	51.20	52.16	53.12	54. 8	55. 4
57	49.24	50.21	51.18	52.15	53.12	54. 9	55. 6	56. 3
58	50.16	51.14	52.12	53.10	54. 8	55. 6	56. 4	57. 2
59	51. 8	52. 7	53. 6	54. 5	55. 4	56. 3	57. 2	58. 1
60	52. 0	53. 0	54. 0	55. 0	56. 0	57. 0	58. 0	59. 0
	52	53	54	55	56	57	58	59

EPHEMERIS SOLA-

Dies.	Jan. ☉ ♑	Febr. ☉ ♒	Mart. ☉ ♓	Apr. ☉ ♈	Maj. ☉ ♉	Jun. ☉ ♊
1	21. 56	23. 27	21. 32	22. 5	21. 9	20. 48
2	22. 58	24. 28	22. 32	23. 4	22. 6	21. 45
3	23. 59	25. 28	23. 31	24. 2	23. 4	22. 42
4	25. 0	26. 29	24. 31	25. 1	24. 2	23. 40
5	26. 1	27. 29	25. 30	25. 59	24. 59	24. 37
6	27. 2	28. 30	26. 30	26. 58	25. 57	25. 34
7	28. 4	29. 30	27. 29	27. 56	26. 54	26. 31
8	29. 5	♓. 31	28. 29	28. 54	27. 52	27. 28
9	♒. 6	1. 31	29. 28	29. 53	28. 50	28. 25
10	1. 7	2. 31	♈. 28	♉. 51	29. 47	29. 22
11	2. 8	3. 32	1. 27	1. 49	♊ 45	♋. 19
12	3. 9	4. 32	2. 26	2. 48	1. 42	1. 17
13	4. 10	5. 32	3. 26	3. 46	2. 40	2. 14
14	5. 11	6. 32	4. 25	4. 44	3. 37	3. 11
15	6. 13	7. 33	5. 24	5. 42	4. 34	4. 8
16	7. 14	8. 33	6. 23	6. 40	5. 32	5. 5
17	8. 15	9. 33	7. 22	7. 38	6. 29	6. 2
18	9. 16	10. 33	8. 22	8. 36	7. 26	6. 59
19	10. 17	11. 33	9. 21	9. 34	8. 24	7. 56
20	11. 17	12. 33	11. 20	10. 32	9. 21	8. 53
21	12. 18	13. 33	11. 19	11. 30	10. 18	9. 51
22	13. 19	14. 33	12. 18	12. 28	11. 16	10. 48
23	14. 20	15. 33	13. 17	13. 26	12. 13	11. 45
24	15. 21	16. 33	14. 15	14. 24	13. 10	12. 42
25	16. 22	17. 33	15. 14	15. 22	14. 8	13. 39
26	17. 23	18. 33	16. 13	16. 20	15. 5	14. 36
27	18. 23	19. 32	17. 12	17. 18	16. 2	15. 33
28	19. 24	20. 32	18. 11	18. 16	16. 59	16. 30
29	20. 25		19. 9	19. 13	17. 57	17. 27
30	21. 26		20. 8	20. 11	18. 54	18. 25
31	22. 26		21. 7		19. 51	

Dies	*Jul.*	*Aug.*	*Sept.*	*Octob.*	*Nov.*	*Dec.*
	° ♋ ′	° ♌ ′	° ♍ ′	° ♎ ′	° ♏ ′	° ♐ ′
1	19. 22	18. 59	18. 58	18. 29	19. 32	20.
2	20. 19	19. 57	19. 57	19. 29	20. 33	21.
3	21. 16	20. 55	20. 55	20. 28	21. 34	22.
4	22. 13	21. 52	21. 54	21. 28	22. 34	23.
5	23. 10	22. 50	22. 52	22. 28	23. 35	24.
6	24. 8	23. 48	23. 51	23. 27	24. 36	25.
7	25. 5	24. 45	24. 50	24. 37	25. 36	26.
8	26. 2	25. 43	25. 48	25. 27	26. 37	27. 1[…]
9	26. 59	26. 41	26. 47	26. 27	27. 38	28. 1[…]
10	27. 56	27. 39	27. 46	27. 27	28. 39	29. 1[…]
11	28. 54	28. 37	28. 45	28. 26	29. 40	♑. 1[…]
12	29. 51	29. 35	29. 44	29. 26	♐. 41	1. 15
13	♌. 48	♍. 32	♎. 43	♏. 26	1. 42	2. 17
14	1. 45	1. 30	1. 42	1. 26	2. 43	3. 18
15	2. 43	2. 28	2. 41	2. 26	3. 43	4. 19
16	3. 40	3. 26	3. 40	3. 27	4. 44	5. 21
17	4. 37	4. 24	4. 39	4. 27	5. 45	6. 22
18	5. 35	5. 22	5. 38	5. 27	6. 46	7. 23
19	6. 32	6. 20	6. 37	6. 27	7. 47	8. 25
20	7. 29	7. 19	7. 36	7. 27	8. 49	9. 26
21	8. 27	8. 17	8. 35	8. 27	9. 50	10. 27
22	9. 24	9. 15	9. 34	9. 28	10. 51	11. 29
23	10. 22	10. 13	10. 34	10. 28	11. 52	12. 30
24	11. 19	11. 11	11. 33	11. 28	12. 53	13. 31
25	12. 17	12. 9	12. 32	12. 29	13. 54	14. 33
26	13. 14	13. 8	13. 32	13. 29	14. 55	15. 34
27	14. 12	14. 6	14. 31	14. 30	15. 56	16. 35
28	15. 9	15. 4	15. 30	15. 30	16. 58	17. 36
29	16. 7	16. 3	16. 30	16. 31	17. 59	18. 38
30	17. 4	17. 1	17. 29	17. 31	19. 0	19. 39
31	18. 2	18. 0		18. 32		20. 40

Sequuntur nunc

TABULÆ

SPHÆRICÆ

ET

THEORICÆ.

Tab Decl. Eclipt.				
	♈	♉	♊	
°	♎	° ♏	° ♐	
1	0.24	11.52	20.26	29
2	0.48	12.13	20.38	28
3	1.12	12.33	20.50	27
4	1.36	12.54	21. 1	26
5	2. 0	13.14	21.12	25
6	2.23	13.34	21.23	24
7	2.47	13.54	21.33	23
8	3.11	14.14	21.43	22
9	3.35	14.33	21.53	21
10	3.58	14.52	22. 2	20
11	4.22	15.11	22.10	19
12	4.46	15.29	22.19	18
13	5. 9	15.48	22.26	17
14	5.32	16. 6	22.34	16
15	5.56	16.24	22.41	15
16	6.19	16.41	22.47	14
17	6.42	16.58	22.53	13
18	7. 5	17.15	22.59	12
19	7.28	17.32	23. 4	11
20	7.51	17.48	23. 9	10
21	8.13	18. 4	23.13	9
22	8.36	18.20	23.17	8
23	8.58	18.35	23.20	7
24	9.21	18.50	23.23	6
25	9.43	19. 5	23.26	5
26	10. 5	19.19	23.28	4
27	10.26	19.33	23.29	3
28	10.48	19.47	23.31	2
29	11. 9	20. 0	23.31	1
30	11.31	20.13	23.32	0
	♍ ♓	♌ ♒	♋	ℨ

T. ang. ſect. Ecl. & Col.				
	♈	♉	♊	
°	° ♎	° ♏	° ♐	
1	66.29	69.32	78. 5	29
2	66.29	69.44	78.27	28
3	66.30	69.57	78.49	27
4	66.32	70. 9	79.12	26
5	6 .33	70.22	79.35	25
6	66.35	70.36	79.58	24
7	66.38	70.50	80.21	23
8	66.41	71. 4	80.44	22
9	66.44	71.19	81. 8	21
10	66.48	71.33	81.32	20
11	66.52	71.49	81.56	19
12	66.56	72. 4	82.20	18
13	67. 1	72.20	82.45	17
14	67. 6	72.37	83. 9	16
15	67.12	72.53	83.34	15
16	67.18	73.10	83.59	14
17	67.24	73.28	84.24	13
18	67.31	73.46	84.50	12
19	67.38	74. 4	85.15	11
20	67.45	74.22	85.41	10
21	67.53	74.41	86. 6	9
22	68. 1	75. 0	86.32	8
23	68.10	75.19	86.58	7
24	68.19	75.39	87.24	6
25	68.28	75.59	87.50	5
26	68.38	76.19	88.16	4
27	68.48	76.40	88.42	3
28	68.58	77. 1	89. 8	2
29	69. 9	77.22	89.34	1
30	69.21	77.43	90. 0	0
	♍ ♓	♌ ♒	♋	ℨ

TABULA DECL. ad Latitud. Septentrional.

♋	8	7	6	5	4	3	2	1
°	° '	° '	° '	° '	° '	° '	° '	° '
0	31.30	30.30	29.30	28.30	27.30	26.30	25.30	24.30
1	31.30	30.30	29.30	28.30	27.30	26.30	25.30	24.30
2	31.29	30.29	29.29	28.29	27.29	26.29	25.29	24.29
3	31.28	30.28	29.28	28.28	27.28	26.28	25.28	24.28
4	31.26	30.26	29.26	28.26	27.26	26.26	25.26	24.26
5	31.24	30.24	29.24	28.24	27.24	26.24	25.24	24.24
6	31.21	30.21	29.21	28.21	27.21	26.22	25.22	24.22
7	31.18	30.18	29.18	28.18	27.18	26.19	25.19	24.19
8	31.15	30.15	29.15	28.15	27.15	26.16	25.16	24.16
9	31.11	30.11	29.11	28.11	26.12	26.12	25.12	24.12
10	31. 6	30. 6	29. 6	28. 6	27. 7	26. 7	25. 7	24. 7
11	31. 1	30. 1	29. 1	28. 1	27. 2	26. 2	25. 2	24. 2
12	30.55	29.55	28.55	27.56	26.56	25.56	24.57	23.57
13	30.49	29.49	28.49	27.50	26.50	25.50	24.51	23.51
14	30.43	29.43	28.43	27.44	26.44	25.44	24.45	23.45
15	30.36	29.36	28.37	27.37	26.38	25.38	24.39	23.39
16	30.29	29.29	28.30	27.30	26.31	25.31	24.32	23.32
17	30.21	29.21	28.22	27.22	26.23	25.24	24.24	23.25
18	30.13	29.13	28.14	27.14	26.15	25.16	24.16	23.17
19	30. 4	29. 4	28. 5	27. 6	26. 7	25. 8	24. 8	23. 9
20	29.55	28.55	27.56	26.57	25.58	24.59	23.59	23. 0
21	29.46	28.46	27.47	26.48	25.49	24.50	23.50	22.51
22	29.36	28.36	27.37	26.38	25.39	24.40	23.40	22.41
23	29.25	28.26	27.27	26.28	25.29	24.30	23.30	22.31
24	29.14	28.15	27.16	26.17	25.18	24.19	23.20	22.21
25	29. 3	28. 4	27. 5	26. 6	25. 7	24. 8	23. 9	22.10
26	28.51	27.53	26.54	25.55	24.56	23.57	22.58	21.59
27	28.39	27.41	26.42	25.43	24.44	23.46	22.47	21.48
28	28.26	27.28	26.29	25.31	24.32	23.34	22.35	21.36
29	28.13	27.15	26.16	25.18	24.19	23.21	22.22	21.24
30	28. 0	27. 2	26. 3	25. 5	24. 6	23. 8	22. 9	21.11

Tab. Decl. ad Latitud. Meridianam.

1	2	3	4	5	6	7	8	♊
° '	° '	° '	° '	° '	° '	° '	° '	°
22.30	21.30	20.30	19.30	18.30	17.30	16.30	15.30	30
22.30	21.30	20.30	19.30	18.30	17.30	16.30	15.30	29
22.29	21.29	20.29	19.29	18.29	17.29	16.29	15.29	28
22.28	21.28	20.28	19.28	18.28	17.28	16.28	15.28	27
22.26	21.26	20.26	19.26	18.26	17.26	16.26	15.26	26
22.24	21.24	20.24	19.24	18.24	17.24	16.24	15.24	25
22.22	21.22	20.22	19.22	18.22	17.22	16.22	15.22	24
22.19	21.19	20.19	19.19	18.19	17.19	16.19	15.19	23
22.16	21.16	20.16	19.16	18.16	17.16	16.16	15.16	22
22.12	21.12	20.13	19.13	18.13	17.13	16.13	15.13	21
22. 7	21. 7	20. 8	19. 8	18. 8	17. 8	16. 9	15. 9	20
22. 2	21. 2	20. 3	19. 3	18. 3	17. 3	16. 4	15. 4	19
21.57	20.57	19.58	18.58	17.58	16.58	15.59	14.59	18
21.52	20.52	19.52	18.53	17.53	16.53	15.54	14.54	17
21.46	20.46	19.46	18.47	17.47	16.47	15.48	14.48	16
21.40	20.40	19.40	18.41	17.41	16.41	15.42	14.42	15
21.33	20.33	19.33	18.34	17.34	16.34	15.35	14.35	14
21.26	20.26	19.26	18.27	17.27	16.27	15.28	14.28	13
21.18	20.18	19.19	18.19	17.20	16.20	15.21	14.21	12
21.10	20.10	19.11	18.11	17.12	16.12	15.13	14.13	11
21. 1	20. 2	19. 3	18. 3	17. 4	16. 4	15. 5	14. 5	10
20.52	19.53	18.54	17.55	16.55	15.56	14.56	13.57	9
20.43	19.44	18.45	17.46	16.46	15.47	14.47	13.48	8
20.33	19.34	18.35	17.36	16.36	15.37	14.38	13.39	7
20.23	19.24	18.25	17.26	16.26	15.27	14.28	13.29	6
20.12	19.13	18.14	17.15	16.16	15.17	14.18	13.19	5
20. 1	19. 2	18. 3	17. 4	16. 6	15. 7	14. 8	13. 9	4
19.50	18.51	17.52	16.53	15.55	14.56	13.57	12.58	3
19.38	18.39	17.40	16.41	15.43	14.44	13.45	12.47	2
19.26	18.27	17.28	16.29	15.31	14.32	13.33	12.35	1
19.13	18.15	17.16	16.17	15.19	14.20	13.21	12.23	0

Tab. Decl. ad Lat. Septentrional.

	8	7	6	5	4	3	2	1
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
0	28. 0	27. 2	26. 3	25. 5	24. 6	23. 8	22. 9	21.11
1	27.46	26.48	25.50	24.52	23.53	22.55	21.56	20.58
2	27.32	26.34	25.36	24.38	23.39	22.41	21.43	20.44
3	27.18	26.20	25.22	24.24	23.25	22.27	21.29	20.30
4	27. 4	26. 6	25. 8	24.10	23.11	22.13	21.15	20.16
5	26.49	25.51	24.53	23.55	22.57	21.59	21. 1	20. 2
6	26.34	25.36	24.38	23.40	22.42	21.44	20.46	19.48
7	26.18	25.20	24.22	23.24	22.26	21.28	20.31	19.33
8	26. 2	25. 4	24. 6	23. 8	22.10	21.12	20.15	19.17
9	25.45	24.47	23.50	22.52	21.54	20.56	19.59	19. 1
10	25.28	24.30	23.33	22.36	21.38	20.40	19.43	18.45
11	25.11	24.13	23.16	22.19	21.21	20.24	19.26	18.28
12	24.54	23.56	22.59	22. 2	21. 4	20. 7	19. 9	18.11
13	24.36	23.39	22.42	21.45	20.47	19.50	18.52	17.54
14	24.18	23.21	22.24	21.27	20.29	19.32	18.35	17.37
15	24. 0	23. 3	22. 6	21. 9	20.11	19.14	18.17	17.20
16	23.42	22.45	21.48	20.51	19.53	18.56	17.59	17. 2
17	23.23	22.26	21.29	20.32	19.35	18.38	17.41	16.44
18	23. 4	22. 7	21.10	20.13	19.16	18.19	17.22	16.25
19	22.45	21.48	20.51	19.54	18.57	18. 0	17. 3	16. 7
20	22.25	21.29	20.32	19.35	18.38	17.41	16.44	15.48
21	22. 5	21. 9	20.12	19.16	18.19	17.22	16.25	15.29
22	21.45	20.49	19.52	18.56	17.59	17. 3	16. 6	15.10
23	21.25	20.29	19.3[illegible]	18.36	17.39	16.43	15.46	14.50
24	21. 5	20. 9	19.12	18.16	17.19	16.23	15.26	14.30
25	20.44	19.48	18.52	17.56	16.59	16. 3	15. 6	14.10
26	20.23	19.27	18.31	17.35	16.38	15.42	14.46	13.50
27	20. 2	19. 6	18.10	17.14	16.17	15.21	14.25	13.29
28	19.41	18.45	17.49	16.53	15.56	15. 0	14. 4	13. 8
29	19.20	18.24	17.28	16.32	15.35	14.39	13.43	12.47
30	18.58	18. 2	17. 6	16.10	15.14	14.18	13.22	12.26

1	2	3	4	5	6	7	8	9
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	
19.13	18.15	17.16	16.17	15.19	14.20	13.21	12.23	3
19. 0	18. 2	17. 3	16. 4	15. 6	14. 7	13. 9	12.11	2
18.47	17.49	16.50	15.51	14.53	13.54	12.56	11.58	2
18.34	17.35	16.37	15.38	14.40	13.41	12.43	11.45	2
18.20	17.21	16.23	15.25	14.26	13.28	12.30	11.32	2
18. 6	17. 7	16. 9	15.11	14.11	13.14	12.16	11.18	2
17.51	16.55	15.55	14.57	13.58	13. 0	12. 2	11. 4	2
17.37	16.38	15.40	14.42	13.43	12.45	11.47	10.49	2
17.21	16.23	15.25	14.27	13.28	12.30	11.32	10.34	2
17. 5	16. 7	15. 9	14.11	13.13	12.15	11.17	10.19	21
16.49	15.51	14.53	13.55	12.57	12. 0	11. 2	10. 4	2
16.33	15.35	14.37	13.39	12.41	11.44	10.46	9.48	1
16.16	15.19	14.21	13.23	12.25	11.28	10.30	9.32	1
15.59	15. 2	14. 4	13. 7	12. 9	11.12	10.14	9.16	1
15.42	14.45	13.47	12.50	11.52	10.55	9.57	9. 0	1
15.25	14.27	13.30	12.33	11.35	10.38	9.40	8.43	1
15. 7	14.10	13.13	12.16	11.18	10.21	9.23	8.26	1
14.49	13.52	12.55	11.58	11. 0	10. 3	9. 6	8. 9	1
14.31	13.34	12.37	11.40	10.42	9.45	8.48	7.51	1
14.13	13.16	12.19	11.22	10.24	9.27	8.30	7.33	1
13.54	12.57	12. 0	11. 3	10. 6	9. 9	8.12	7.15	1
13.35	12.38	11.41	10.44	9.47	8.50	7.53	6.56	
13.16	12.19	11.22	10.25	9.28	8.31	7.34	6.38	
12.57	12. 0	11. 3	10. 6	9. 9	8.12	7.15	6.19	
12.37	11.40	10.43	9.47	8.50	7.53	6.56	6. 0	
12.17	11.20	10.23	9.27	8.30	7.34	6.37	5.41	
11.57	11. 0	10. 3	9. 7	8.10	7.14	6.17	5.21	
11.36	10.39	9.43	8.47	7.50	6.54	5.57	5. 1	
11.16	10.19	9.23	8.27	7.30	6.34	5.37	4.41	
10.55	9.59	9. 3	8. 6	7.10	6.14	5.17	4.21	
1 . 34	9.38	8.42	7.45	6.49	5.53	4.56	4. 0	

[illegible]	8	7	6	5	4	3	2	1
o	° ′	° ′	° ′	° ′	° ′	° ′	° ′	°
0	18.58	18. 2	17. 6	16.10	15.14	14.18	13.22	12.26
1	18.34	17.41	16.45	15.49	14.53	13.57	13. 1	12. 5
2	18.12	17.19	16.23	15.27	14.31	13.35	12.40	11.44
3	17.52	16.57	16. 1	15. 5	14. 9	13.13	12.18	11.22
4	17.30	16.35	15.39	14.43	13.47	12.51	11.56	11. 0
5	17. 8	16.13	15.17	14.21	13.25	12.29	11.34	10.38
6	16.45	15.50	14.54	13.59	13. 3	12. 7	11.12	10.16
7	16.22	15.27	14.32	13.36	12.41	11.45	10.50	9.54
8	15.59	15. 4	14. 9	13.13	12.18	11.22	10.27	9.31
9	15.36	14.41	13.46	12.50	11.55	10.59	10. 4	9. 8
10	15.13	14.18	13.23	12.28	11.32	10.37	9.41	8.46
11	14.50	13.55	13. 0	12. 5	11. 9	10.14	9.18	8.23
12	14.27	13.32	12.37	11.42	10.46	9.51	8.55	8. 0
13	14. 4	13. 9	12.14	11.19	10.23	9.28	8.32	7.37
14	13.41	12.46	11.51	10.56	10. 0	9. 5	8. 9	7.14
15	13.17	12.22	11.27	10.32	9.36	8.41	7.46	6.51
16	12.53	11.59	11. 4	10. 9	9.13	8.18	7.23	6.28
17	12.30	11.35	10.40	9.45	8.50	7.55	7. 0	6. 5
18	12. 6	11.11	10.16	9.21	8.26	7.31	6.36	5.41
19	11.43	10.48	9.53	8.58	8. 3	7. 7	6.12	5.17
20	11.19	10.24	9.29	8.34	7.39	6.43	5.48	4.53
21	10.55	10. 0	9. 5	8.10	7.15	6.19	5.24	4.29
22	10.31	9.36	8.41	7.46	6.51	5.56	5. 1	4. 6
23	10. 7	9.12	8.17	7.22	6.27	5.32	4.37	3.42
24	9.43	8.48	7.53	6.58	6. 3	5. 8	4.13	3.18
25	9.19	8.24	7.30	6.35	5.40	4.45	3.50	2.55
26	8.55	8. 0	7. 6	6.11	5.16	4.21	3.26	2.31
27	8.31	7.35	6.42	5.47	4.52	3.57	3. 2	2. 7
28	8. 8	7.12	6.18	5.23	4.28	3.33	2.38	1.43
29	7.44	6.49	5.54	4.59	4. 4	3. 9	2.14	1.19
30	7.20	6.25	5.30	4.35	3.40	2.45	1.50	0.55

1	2	3	4	5	6	7	8	V
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	°
10.34	9.38	8.42	7.45	6.49	5.53	4.56	4. 0	30
10.13	9.17	8.21	7.24	6.28	5.32	4.36	3.40	29
9.52	8.56	8. 0	7. 3	6. 7	5.11	4.15	3.19	28
9.30	8.34	7.38	6.42	5.46	4.50	3.54	2.58	27
9. 8	8.13	7.17	6.21	5.25	4.29	3.33	2.37	26
8.46	7.51	6.55	5.59	5. 3	4. 7	3.11	2.16	25
8.24	7.29	6.33	5.37	4.41	3.45	2.49	1.54	24
8. 2	7. 7	6.11	5.15	4.19	3.23	2.27	1.32	23
7.40	6.44	5.49	4.53	3.57	3. 1	2. 5	1.10	22
7.17	6.21	5.26	4.30	3.34	2.39	1.43	0.47	21
6.55	5.59	5. 4	4. 8	3.12	2.17	1.21	0.25	20
6.32	5.37	4.41	3.46	2.50	1.55	0.59	0. 3	19
6. 9	5.14	4.18	3.23	2.27	1.32	0.36	0.19	18
5.46	4.51	3.55	3. 0	2. 4	1. 9	0.14	0.42	17
5.23	4.28	3.32	2.37	1.41	0.46	0. 9	1. 5	16
5. 0	4. 5	3. 9	2.14	1.18	0.23	0.32	1.28	15
4.37	3.42	2.46	1.51	0.55	0. 0	0.55	1.51	14
4.14	3.19	2.23	1.28	0.32	0.23	1.18	2.14	13
3.50	2.55	2. 0	1. 4	0. 9	0.46	1.41	2.37	12
3.27	2.32	1.37	0.41	0.14	1. 9	2. 4	3. 0	11
3. 3	2. 8	1.13	0.18	0.38	1.33	2.28	3.23	10
2.39	1.44	0.49	0. 6	1. 2	1.57	2.52	3.47	[illegible]
2.16	1.21	0.26	0.29	1.25	2.20	3.15	4.10	[illegible]
1.52	0.57	0. 2	0.53	1.48	2.43	3.38	4.33	[illegible]
1.28	0.33	0.22	1.17	2.12	3. 7	4. 2	4.57	[illegible]
1. 5	0. 9	0.46	1.41	2.36	3.31	4.26	5.21	[illegible]
0.41	0.15	1.10	2. 5	3. 0	3.55	4.50	5.45	[illegible]
0.17	0.39	1.34	2.29	3.24	4.19	5.14	6. 9	[illegible]
0. 7	1. 3	1.57	2.52	3.47	4.42	5.37	6.32	[illegible]
0.31	1.27	2.21	3.16	4.11	5. 6	6. 1	6.56	[illegible]
0.55	1.50	2.45	3.40	4.35	5.30	6.25	7.20	0

	8	7	6	5	4	3	2	1
°	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
0	7.20	6.25	5.30	4.35	3.40	2.45	1.50	0.55
1	6.56	6. 1	5. 6	4.11	3.16	2.21	1.27	0.31
2	6.32	5.37	4.42	3.47	2.52	1.57	1. 3	0. 7
3	6. 9	5.14	4.19	3.24	2.29	1.34	0.39	0.17
4	5.45	4.50	3.55	3. 0	2. 5	1.10	0.15	0.41
5	5.21	4.26	3.31	2.36	1.41	0.46	0. 9	1. 5
6	4.57	4. 2	3. 7	2.12	1.17	0.22	0.33	1.28
7	4.33	3.38	2.43	1.48	0.53	0. 2	0.57	1.52
8	4.10	3.15	2.20	1.25	0.29	0.26	1.21	2.16
9	3.47	2.52	1.57	1. 2	0. 6	0.49	1.44	2.39
10	3.23	2.28	1.33	0.38	0.18	1.13	2. 8	3. 3
11	3. 0	2. 4	1. 9	0.14	0.41	1.37	2.32	3.27
12	2.37	1.41	0.46	0. 9	1. 4	2. 0	2.55	3.50
13	2.14	1.18	0.23	0.32	1.28	2.23	3.19	4.14
14	1.51	0.55	0. 0	0.55	1.51	2.46	3.42	4.37
15	1.28	0.32	0.23	1.18	2.14	3. 9	4. 5	5. 0
16	1. 5	0. 9	0.46	1.41	2.37	3.32	4.28	5.23
17	0.42	0.14	1. 9	2. 4	3. 0	3.55	4.51	5.46
18	0.19	0.36	1.32	2.27	3.23	4.18	5.14	6. 9
19	0. 3	0.59	1.55	2.50	3.46	4.41	5.37	6.32
20	0.25	1.21	2.17	3.12	4. 8	5. 4	5.59	6.55
21	0.47	1.43	2.39	3.34	4.30	5.26	6.21	7.17
22	1.10	2. 5	3. 1	3.57	4.53	5.49	6.44	7.40
23	1.32	2.27	3.23	4.19	5.15	6.11	7. 7	8. 2
24	1.54	2.49	3.45	4.41	5.37	6.33	7.29	8.24
25	2.16	3.11	4. 7	5. 3	5.59	6.55	7.51	8.46
26	2.37	3.33	4.29	5.25	6.21	7.17	8.13	9. 8
27	2.58	3.54	4.50	5.46	6.42	7.38	8.34	9.30
28	3.19	4.15	5.11	6. 7	7. 3	8. 0	8.56	9.52
29	3.40	4.36	5.32	6.28	7.24	8.21	9.17	10.14
30	4. 0	4.56	5.53	6.49	7.45	8.42	9.38	10.34

1	2	3	4	5	6	7	8	♓
° '	° '	° '	° '	° '	° '	° '	° '	°
0.55	1.50	2.45	3.40	4.35	5.30	6.25	7.20	30
1.19	2.14	3. 9	4. 4	4.59	5.54	6.49	7.44	29
1.43	2.38	3.33	4.28	5.23	6.18	7.12	8. 8	28
2. 7	3. 2	3.57	4.52	5.47	6.42	7.35	8.31	27
2.31	3.26	4.21	5.16	6.11	7. 6	8. 0	8.55	26
2.55	3.50	4.45	5.40	6.35	7.30	8.24	9.19	25
3.18	4.13	5. 8	6. 3	6.58	7.53	8.48	9.43	24
3.42	4.37	5.32	6.27	7.22	8.17	9.12	10. 7	23
4. 6	5. 1	5.56	6.51	7.46	8.41	9.36	10.31	22
4.29	5.24	6.19	7.15	8.10	9. 5	10. 0	10.55	21
4.53	5.48	6.43	7.39	8.34	9.29	10.24	11.19	20
5.17	6.12	7. 7	8. 3	8.58	9.53	10.48	11.43	19
5.41	6.36	7.31	8.26	9.21	10.16	11.11	12. 6	18
6. 5	7. 0	7.55	8.50	9.45	10.40	11.35	12.30	17
6.28	7.23	8.18	9.13	10. 9	11. 4	11.59	12.54	16
6.51	7.46	8.41	9.36	10.32	11.27	12.22	13.17	15
7.14	8. 9	9. 5	10. 0	10.56	11.51	12.46	13.41	14
7.37	8.32	9.28	10.23	11.19	12.14	13. 9	14. 4	13
8. 0	8.55	9.51	10.46	11.42	12.37	13.32	14.27	12
8.23	9.18	10.14	11. 9	12. 5	13. 0	13.55	14.50	11
8.46	9.41	10.37	11.32	12.28	13.23	14.18	15.13	10
9. 8	10. 4	10.59	11.55	12.50	13.46	14.41	15.36	9
9.31	10.27	11.22	12.18	13.13	14. 9	15. 4	15.59	8
9.54	10.50	11.45	12.41	13.36	14.32	15.27	16.22	7
10.16	11.12	12. 7	13. 3	13.59	14.54	15.50	16.45	6
10.3	11.34	12.29	13.25	14.21	15.17	16.13	17. 8	5
11. 0	11.56	12.51	13.47	14.43	15.39	16.35	17.30	4
11.22	12.18	13.13	14. 9	15. 5	16. 1	16.57	17.52	[illegible]
11.44	12.40	13.35	14.31	15.27	16.23	17.19	18.12	[illegible]
12. 5	13. 1	13.57	14.53	15.49	16.45	17.41	18.34	[illegible]
12.26	13.22	14.18	15.14	16.10	17. 6	18. 2	18.58	[illegible]

♏	8	7	6	5	4	3	2	1
o	o '	o '	o '	o '	o '	o '	o '	o '
0	4. 0	4.56	5.53	6.49	7.45	8.42	9.38	10.34
1	4.21	5.17	6.14	7.10	8. 6	9. 3	9.59	10.55
2	4.41	5.37	6.34	7.30	8.27	9.23	10.19	11.16
3	5. 1	5.57	6.54	7.50	8.47	9.43	10.39	11.36
4	5.21	6.17	7.14	8.10	9. 7	10. 3	11. 0	11.57
5	5.41	6.37	7.34	8.30	9.27	10.23	11.20	12.17
6	6. 0	6.56	7.53	8.50	9.47	10.43	11.40	12.37
7	6.19	7.15	8.12	9. 9	10. 6	11. 3	12. 0	12.57
8	6.38	7.34	8.31	9.28	10.25	11.22	12.19	13.16
9	6.56	7.53	8.50	9.47	10.44	11.41	12.38	13.35
10	7.15	8.12	9. 9	10. 6	11. 3	12. 0	12.57	13.54
11	7.33	8.30	9.27	10.24	11.22	12.19	13.16	14.13
12	7.51	8.48	9.45	10.42	11.40	12.37	13.34	14.31
13	8. 9	9. 6	10. 3	11. 0	11.58	12.55	13.52	14.49
14	8.26	9.23	10.21	11.18	12.16	13.13	14.10	15. 7
15	8.43	9.40	10.38	11.35	12.33	13.30	14.27	15.25
16	9. 0	9.57	10.55	11.52	12.50	13.47	14.45	15.42
17	9.16	10.14	11.12	12. 9	13. 7	14. 4	15. 2	15.59
18	9.32	10.30	11.28	12.25	13.23	14.21	15.19	16.16
19	9.48	10.46	11.44	12.41	13.39	14.37	15.35	16.33
20	10. 4	11. 2	12. 0	12.57	13.55	14.53	15.51	16.49
21	10.19	11.17	12.15	13.13	14.11	15. 9	16. 7	17. 5
22	10.34	11.32	12.30	13.28	14.27	15.25	16.23	17.21
23	10.49	11.47	12.45	13.43	14.42	15.40	16.38	17.36
24	11. 4	12. 2	13. 0	13.58	14.57	15.55	16.53	17.51
25	11.18	12.16	13.14	14.12	15.11	16. 9	17. 7	18. 6
26	11.32	12.30	13.28	14.26	15.25	16.23	17.21	18.20
27	11.45	12.43	13.41	14.40	15.38	16.37	17.35	18.34
28	11.58	12.56	13.54	14.53	15.51	16.50	17.49	18.47
29	12.11	13. 9	14. 7	15. 6	16. 4	17. 3	18. 2	19. 0
30	12.23	13.21	14.20	15.19	16.17	17.16	18.15	19.13

1	2	3	4	5	6	7	8	
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	°
12.26	13.22	14.18	15.14	16.10	17. 6	18. 2	18.58	30
12.47	13.43	14.39	15.35	16.32	17.28	18.24	19.20	29
13. 8	14. 4	15. 0	15.56	16.53	17.49	18.45	19.41	28
13.29	14.25	15.21	16.17	17.14	18.10	19. 6	20. 2	27
13.50	14.46	15.42	16.38	17.35	18.31	19.27	20.23	26
14.10	15. 6	16. 3	16.59	17.56	18.52	19.48	20.44	25
14.30	15.26	16.23	17.19	18.16	19.12	20. 9	21. 5	24
14.50	15.46	16.43	17.39	18.36	19.32	20.29	21.25	23
15.10	16. 6	17. 3	17.59	18.56	19.52	20.49	21.45	22
15.29	16.25	17.22	18.19	19.16	20.12	21. 9	22. 5	21
15.48	16.44	17.41	18.38	19.35	20.32	21.29	22.25	20
16. 7	17. 3	18. 0	18.57	19.54	20.51	21.48	22.45	19
16.25	17.22	18.19	19.16	20.13	21.10	22. 7	23. 4	18
16.44	17.41	18.38	19.35	20.32	21.29	22.26	23.23	17
17. 2	17.59	18.56	19.53	20.51	21.48	22.45	23.42	16
17.20	18.17	19.14	20.11	21. 9	22. 6	23. 3	24. 0	15
17.37	18.35	19.32	20.29	21.27	22.24	23.21	24.18	14
17.54	18.52	19.50	20.47	21.45	22.42	23.39	24.36	13
18.11	19. 9	20. 7	21. 4	22. 2	22.59	23.56	24.54	12
18.28	19.26	20.24	21.21	22.19	23.16	24.13	25.11	11
18.45	19.43	20.40	21.38	22.36	23.33	24.30	25.28	10
19. 1	19.59	20.56	21.54	22.52	23.50	24.47	25.45	9
19.17	20.15	21.12	22.10	23. 8	24. 6	25. 4	26. 2	8
19.33	20.31	21.28	22.26	23.24	24.22	25.20	26.18	7
19.48	20.46	21.44	22.42	23.40	24.38	25.36	26.34	6
20. 2	21. 1	21.59	22.57	23.55	24.53	25.51	26.49	5
20.16	21.15	22.13	23.11	24.10	25. 8	26. 6	27. 4	4
20.30	21.29	22.27	23.25	24.24	25.22	26.20	27.18	3
20.44	21.43	22.41	23.39	24.38	25.36	26.34	27.32	2
20.58	21.56	22.55	23.53	24.52	25.50	26.48	27.46	1
21.11	22. 9	23. 8	24. 6	25. 3	26. 5	27. 2	28. 0	0

♐	8	7	6	5	4	3	2	1
o	o '	o '	o '	o '	o '	o '	o '	o '
0	12.23	13.21	14.20	15.19	16.17	17.16	1 .15	19.13
1	12.35	13.33	14.32	15.31	16.29	17.28	18.27	19.26
2	12.47	13.45	14.44	15.43	16.41	17.40	18.39	19.38
3	12.58	13.57	14.56	15.55	16.53	17.52	18.51	19.50
4	13. 9	14. 8	15. 7	16. 6	17. 4	18. 3	19. 2	20. 1
5	13.19	14.18	15.17	16.16	17.15	18.14	19.13	20.12
6	13.29	14.28	15.27	16.26	17.26	18.25	19.24	20.23
7	13.39	14.38	15.37	16.36	17.36	18.35	19.34	20.33
8	13.48	14.47	15.47	16.46	17.46	18.45	19.44	20.43
9	13.57	14.56	15.56	16.55	17.55	18.54	19.53	20.52
10	14. 5	15. 5	16. 4	17. 4	18. 3	19. 3	20. 2	21. 1
11	14.13	15.13	16.12	17.12	18.11	19.11	20.10	21.10
12	14.21	15.21	16.20	17.20	18.19	19.19	20.18	21.18
13	14.28	15.28	16.27	17.27	18.27	19.26	20.26	21.26
14	14.35	15.35	16.34	17.34	18.34	19.33	20.33	21.33
15	14.42	15.42	16.41	17.41	18.41	19.40	20.40	21.40
16	14.48	15.48	16.47	17.47	18.47	19.46	20.46	21.46
17	14.54	15.54	16.53	17.53	18.53	19.52	20.52	21.52
18	14.59	15.59	16.58	17.58	18.58	19.58	20.57	21.57
19	15. 4	16. 4	17. 3	18. 3	19. 3	20. 3	21. 2	22. 2
20	15. 9	16. 9	17. 8	18. 8	19. 8	20. 8	21. 7	22. 7
21	15.13	16.13	17.13	18.13	19.13	20.13	21.12	22.12
22	15.16	16.16	17.16	18.16	19.16	20.16	21.16	22.16
23	15.19	16.19	17.19	18.19	19.19	20.19	21.19	22.19
24	15.22	16.22	17.22	18.22	19.22	20.22	21.22	22.22
25	15.24	16.24	17.24	18.24	19.24	20.24	21.24	22.24
26	15.26	16.26	17.26	18.26	19.26	20.26	21.26	22.26
27	15.28	16.28	17.28	18.28	19.28	20.28	21.28	22.28
28	15.29	16.29	17.29	18.29	19.29	20.29	21.29	22.29
29	15.30	16.30	17.30	18.30	19.30	20.30	21.30	22.30
30	15.30	16.30	17.30	18.30	19.30	20.30	21.30	22.30

1	2	3	4	5	6	7	8
° '	° '	° '	° '	° '	° '	° '	° '
21.11	22. 9	23. 8	24. 6	25. 5	26. 3	27. 2	28. 0
21.24	22.22	23.21	24.19	25.18	26.16	27.15	28.13
21.36	22.35	23.34	24.32	25.31	26.29	27.28	28.26
21.48	22.47	23.46	24.44	25.43	26.42	27.41	28.39
21.59	22.58	23.57	24.56	25.55	26.54	27.53	28.51
22.10	23. 9	24. 8	25. 7	26. 6	27. 5	28. 4	29. 3
22.21	23.20	24.19	25.18	26.17	27.16	28.15	29.14
22.31	23.30	24.30	25.29	26.28	27.27	28.26	29.25
22.41	23.40	24.40	25.39	26.38	27.37	28.36	29.36
22.51	23.50	24.50	25.49	26.48	27.47	28.46	29.46
23. 0	23.59	24.59	25.58	26.57	27.56	28.55	29.55
23. 9	24. 8	25. 8	26. 7	27. 6	28. 5	29. 4	30. 4
23.17	24.16	25.16	26.15	27.14	28.14	29.13	30.13
23.25	24.24	25.24	26.23	27.22	28.22	29.21	30.21
23.32	24.32	25.31	26.31	27.30	28.30	29.29	30.29
23.39	24.39	25.38	26.38	27.37	28.37	29.36	30.36
23.45	24.45	25.44	26.44	27.44	28.43	29.43	30.43
23.51	24.51	25.50	26.50	27.50	28.49	29.49	30.49
23.57	24.57	25.56	26.56	27.56	28.55	29.55	30.51
24. 2	25. 2	26. 2	27. 2	28. 1	29. 1	30. 1	31. 1
24. 7	25. 7	26. 7	27. 7	28. 6	29. 6	30. 6	31. 6
24.12	25.12	26.12	27.12	28.11	29.11	30.11	31.11
24.16	25.16	26.16	27.15	28.15	29.15	30.15	31.15
24.19	25.19	26.19	27.18	28.18	29.18	30.18	31.18
24.22	25.22	26.22	27.21	28.21	29.21	30.21	31.21
24.24	25.24	26.24	27.24	28.24	29.24	30.24	31.24
24.26	25.26	26.26	27.26	28.26	29.26	30.26	31.26
24.28	25.28	26.28	27.28	28.28	29.28	30.28	31.28
24.29	25.29	26.29	27.29	28.29	29.29	30.29	31.29
24.30	25.30	26.30	27.30	28.30	29.30	30.30	31.30
24.30	25.30	26.30	27.30	28.30	29.30	30.30	31.30

TABULA ASCENSIONUM

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	27.54	57.48	90. 0	122.12	152. 6
1	0.55	28.51	58.51	91. 6	123.14	153. 3
2	1.50	29.49	59.54	92.12	124.16	154. 0
3	2.45	30.46	60.57	93.17	125.18	154.57
4	3.40	31.44	62. 0	94.22	126.20	155.54
5	4.35	32.42	63. 3	95.27	127.22	156.51
6	5.30	33.40	64. 6	96.33	128.24	157.48
7	6.25	34.39	65. 9	97.38	129.25	158.45
8	7.20	35.37	66.12	98.43	130.26	159.41
9	8.15	36.36	67.17	99.48	131.27	160.37
10	9.11	37.35	68.21	100.53	132.27	161.33
11	10. 6	38.34	69.25	101.58	133.28	162.29
12	11. 1	39.33	70.29	103. 3	134.29	163.25
13	11.57	40.32	71.33	104. 8	135.29	164.21
14	12.52	41.31	72.38	105.13	136.29	165.17
15	13.48	42.31	73.43	106.17	137.29	166.12
16	14.43	43.31	74.47	107.22	138.29	167. 8
17	15.39	44.31	75.52	108.27	139.28	168. 3
18	16.35	45.31	76.57	109.31	140.27	168.59
19	17.32	46.32	78. 2	110.35	141.26	169.54
20	18.27	47.33	79. 7	111.39	142.25	170.49
21	19.23	48.33	80.12	112.43	143.24	171.45
22	20.20	49.34	81.17	113.47	144.23	172.40
23	21.15	50.35	82.22	114.51	145.21	173.35
24	22.12	51.36	83.27	115.54	146.20	174.30
25	23. 9	52.38	84.33	116.57	147.18	175.25
26	24. 6	53.40	85.38	118. 0	148.16	176.20
27	25. 3	54.42	86.43	119. 3	149.14	177.15
28	26. 0	55.44	87.48	120. 6	150.11	178.10
29	26.57	56.46	88.54	121. 9	151. 9	179. 5
30	27.54	57.48	90. 0	122.12	152. 6	180. 0

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	′ °
0	180. 0	207.54	237.48	270. 0	302.12	332. 6
1	180.55	208.51	238.51	271. 6	303.14	333. 3
2	181.50	209.49	239.54	272.12	304.16	334. 0
3	182.45	210.46	240.57	273.17	305.18	334.57
4	183.40	211.44	242. 0	274.22	306.20	335.54
5	184.35	212.42	243. 3	275.27	307.22	336.51
6	185.30	213.40	244. 6	276.33	308.24	337.48
7	186.25	214.39	245. 9	277.38	309.25	338.45
8	187.20	215.37	246.13	278.43	310.26	339.41
9	188.15	216.36	247.17	279.48	311.27	340.37
10	189.11	217.35	248.21	280.53	312.28	341.33
11	190. 6	218.34	249.25	281.58	313.29	342.29
12	191. 1	219.33	250.29	283. 3	314.29	343.25
13	191.57	220.32	251.33	284. 8	315.29	344.21
14	192.52	221.31	252.38	285.13	316.29	345.17
15	193.48	222.31	253.43	286.17	317.29	346.13
16	194.43	223.31	254.47	287.22	318.29	347. 8
17	195.39	224.31	255.52	288.27	319.28	348. 3
18	196.35	225.31	256.57	289.31	320.27	348.59
19	197.31	226.32	258. 2	290.35	321.26	349.55
20	198.27	227.33	259. 7	291.39	322.25	350.50
21	199.23	228.33	260.12	292.43	323.24	351.45
22	200.19	229.34	261.17	293.47	324.23	352.40
23	201.15	230.35	262.22	294.51	325.21	353.35
24	202.12	231.36	263.27	295.54	326.20	354.30
25	203. 9	232.38	264.33	296.57	327.18	355.25
26	204. 6	233.40	265.38	298. 0	328.16	356.20
27	205. 3	234.42	266.43	299. 3	329.14	357.15
28	206. 0	235.44	267.48	300. 6	330.11	358.10
29	206.57	236.46	268.54	301. 9	331. 5	359. 5
30	207.54	237.48	270. 0	302.12	332. 6	360. 0

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	359.37	27.33	57.35	90. 0	122.25	152.27
1	0.32	28.30	58.38	91. 6	123.28	153.25
2	1.27	29.27	59.41	92.12	124.31	154.22
3	2.22	30.25	60.44	93.18	125.33	155.19
4	3.17	31.23	61.47	94.24	126.36	156.16
5	4.12	32.21	62.51	95.30	127.38	157.13
6	5. 7	33.20	63.55	96.36	128.40	158.10
7	6. 2	34.18	64.59	97.42	129.42	159. 7
8	6.57	35.17	66. 3	98.47	130.43	160. 4
9	7.52	36.16	67. 7	99.52	131.44	161. 0
10	8.47	37.15	68.11	100.58	132.45	161.56
11	9.42	38.14	69.16	102. 4	133.46	162.52
12	10.38	39.14	70.21	103. 9	134.46	163.48
13	11.33	40.13	71.26	104.14	135.47	164.44
14	12.29	41.13	72.31	105.19	136.47	165.40
15	13.25	42.13	73.36	106.24	137.47	166.35
16	14.20	43.13	74.41	107.29	138.47	167.31
17	15.16	44.13	75.46	108.34	139.47	168.27
18	16.12	45.14	76.51	109.39	140.46	169.22
19	17. 8	46.14	77.56	110.44	141.46	170.18
20	18. 4	47.15	79. 2	111.49	142.45	171.13
21	19. 0	48.16	80. 8	112.53	143.44	172. 8
22	19.56	49.17	81.13	113.57	144.43	173. 3
23	20.53	50.18	82.18	115. 1	145.42	173.58
24	21.50	51.20	83.24	116. 5	146.40	174.53
25	22.47	52.22	84.30	117. 9	147.39	175.48
26	23.44	53.24	85.36	118.13	148.37	176.43
27	24.41	54.27	86.42	119.16	149.35	177.38
28	25.38	55.29	87.48	120.19	150.33	178.33
29	26.35	56.32	88.54	121.22	151.30	179.28
30	27.33	57.35	90. 0	122.25	152.27	180.23

		♎	♏	♐	♑	♒	♓
o		o /	o /	o /	o /	o /	o /
0		180.23	208.16	238. 2	270. 0	391.58	331.44
1		181.18	209.13	239. 4	271. 5	303. 0	332.41
2		182.13	210.10	240. 6	272.10	304. 2	333.38
3		183. 8	211. 7	241. 9	273.15	305. 3	334.35
4		184. 3	212. 5	242.11	274.20	306. 5	335.32
5		184.58	213. 3	243.14	275.25	307. 7	336.29
6		185.54	214. 1	244.17	276.30	308. 8	337.25
7		186.49	2 4.59	245.20	277.35	309. 9	338.22
8		187.44	215.57	246.23	278.39	310.10	339.18
9		188.39	216.56	247.27	279.43	311.10	340.14
10		189.34	217.54	248.30	280.48	312.11	341.10
11		190.29	218.53	249.34	281.53	313.11	342. 6
12		191.25	219.52	250.38	282.57	314.11	343. 2
13		192.20	220.51	251.42	284. 2	315.11	343.58
14		193.16	221.50	252.46	285. 6	316.11	344.53
15		194.12	222.50	253.50	286.10	317.10	345.48
16		195. 7	223.49	254.54	287.14	318.10	346.44
17		196. 2	224.49	255.58	288.18	319. 9	347.40
18		196.58	225.49	257. 3	289.22	320. 8	348.35
19		197.54	226.49	258. 7	290.26	321. 7	349.31
20		198.50	227.49	259.12	291.30	322. 6	350.26
21		199.46	228.50	260.17	292.33	323. 4	351.21
22		200.42	229.50	261.21	293.37	324. 3	352.16
23		201.38	230.51	262.25	294.40	325. 1	353.11
24		202.35	231.52	263.30	295.43	325.59	354. 6
25		203.31	232.53	264.35	296.46	326.57	355. 2
26		204.28	233.55	265.40	297.49	327.55	355.57
27		205.25	234.57	266.45	298.51	328.53	356.52
28		206.22	235.58	267.50	299.54	329.50	357.47
29		207.19	237. 0	268.55	300.56	330.47	358.42
30		208.16	238. 2	270. 0	301.58	331.44	359.37

Tab. Aſcenſ. Rect. ſeu Cœli

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	359.13	27.11	57.21	90. 0	122.39	152.49
1	0. 8	28. 8	58.24	91. 7	123.42	153.47
2	1. 3	29. 6	59.27	92.14	124.45	154.44
3	1.58	30. 4	60.31	93.20	125.48	155.41
4	2.53	31. 2	61.35	94.27	126.5	156.39
5	3.48	32. 0	62.39	95.33	127.54	157.36
6	4.43	32.59	63.43	96.39	128.56	158.33
7	5.38	33.58	64.47	97.45	129.58	159.30
8	6.33	34.57	65.52	98.51	131. 0	160.27
9	7.28	35.56	66.57	99.57	132. 1	161.23
10	8.23	36.55	68. 2	101. 3	133. 2	162.19
11	9.18	37.54	69. 7	102. 9	134. 3	163.15
12	10.14	38.54	70.12	103.15	135. 4	164.11
13	11. 9	39.54	71.17	104.21	136. 5	165. 7
14	12. 5	40.54	72.22	105.27	137. 6	166. 3
15	13. 1	41.54	73.28	106.32	138. 6	166.59
16	13.57	42.54	74.33	107.38	139. 6	167.55
17	14.53	43.55	75.39	108.43	140. 6	168.51
18	15.49	44.56	76.45	109.48	141. 6	169.46
19	16.45	45.57	77.51	110.53	142. 6	170.42
20	17.41	46.58	78.57	111.58	143. 5	171.37
21	18.37	47.59	80. 3	113. 3	144. 4	172.32
22	19.33	49. 0	81. 9	114. 8	145. 3	173.27
23	20.30	50. 2	82.15	115.13	146. 2	174.22
24	21.27	51. 4	83.21	116.17	147. 1	175.17
25	22.24	52. 6	84.27	117.21	148. 0	176.12
26	23.21	53. 9	85.33	118.25	148.58	177. 7
27	24.19	54.12	86.40	119.29	149.56	178. 2
28	25.16	55.15	87.46	120.33	150.54	178.57
29	26.13	56.18	88.53	121.36	151.52	179.52
30	27.11	57.21	90. 0	122.39	152.49	180.47

	♎	♏	♐	♑	♒	♓
°	° '	° '	° '	° '	° '	° '
0	180.47	208.37	238.15	270. 0	301.45	331.23
1	181.42	209.34	239.17	271. 5	302.47	332.20
2	182.37	210.31	240.19	272.10	303.48	333.17
3	183.32	211.28	241.21	273.14	304.49	334.13
4	184.27	212.25	242.23	274.19	305.51	335.10
5	185.22	213.23	243.25	275.23	306.52	336. 7
6	186.18	214.21	244.28	276.27	307.53	337. 3
7	187.13	215.19	245.31	277.31	308.54	337.59
8	188. 8	216.17	246.34	278.35	309.54	338.55
9	189. 3	217.15	247.37	279.39	310.54	339.51
10	189.58	218.13	248.40	280.43	311.54	340.47
11	190.53	219.12	249.43	281.47	312.54	341.43
12	191.48	220.11	250.46	282.51	313.54	342.39
13	192.43	221.10	251.49	283.55	314.54	343.35
14	193.39	222. 9	252.53	284.59	315.53	344.30
15	194.35	223. 8	253.57	286. 3	316.52	345.25
16	195.30	224. 7	255. 1	287. 7	317.51	346.21
17	196.25	225. 6	256. 5	288.11	318.50	347.17
18	197.21	226. 6	257. 9	289.14	319.49	348.12
19	198.17	227. 6	258.13	290.17	320.48	349. 7
20	199.13	228. 6	259.17	291.20	321.47	350. 2
21	200. 9	229. 6	260.21	292.23	322.45	350.57
22	201. 5	230. 6	261.25	293.29	323.43	351.52
23	202. 1	231. 6	262.29	294.29	324.41	352.47
24	202.57	232. 7	263.33	295.32	325.39	353.42
25	203.53	233. 8	264.37	296.35	326.37	354.38
26	204.50	234. 9	265.41	297.37	327.35	355.33
27	205.47	235.11	266.46	298.39	328.32	356.28
28	206.43	236.12	267.50	299.41	329.29	357.23
29	207.40	237.13	268.55	300.43	330.26	358.18
30	208.37	238.15	270. 0	301.45	331.23	359.13

	♈	♉	♊	♋	♌	♍
0	0 ′	0 ′	0 ′	0 ′	0 ′	0 ′
0	358.49	26.49	57. 7	90. 0	122.53	153.11
1	359.44	27.47	58.10	91. 7	123.57	154. 9
2	0.39	28.45	59.14	92.14	125. 0	155. 6
3	1.34	29.43	60.18	93.21	126. 3	156. 3
4	2.29	30.41	61.22	94.28	127. 6	157. 1
5	3.24	31.39	62.27	95.35	128. 9	157.58
6	4.19	32.38	63.32	96.42	129.12	158.55
7	5.14	33.37	64.37	97.49	130.14	159.52
8	6. 9	34.36	65.42	98.55	131.16	160.49
9	7. 4	35.36	66.47	100. 1	132.18	161.46
10	7.59	36.35	67.52	101. 8	133.20	162.42
11	8.55	37.35	68.57	102.15	134.21	163.38
12	9.51	38.35	70. 3	103.21	135.22	164.34
13	10.46	39.35	71. 9	104.27	136.23	165.30
14	11.42	40.35	72.15	105.33	137.24	166.26
15	12.38	41.36	73.21	106.39	138.24	167.22
16	13.34	42.36	74.27	107.45	139.25	168.18
17	14.30	43.37	75.33	108.51	140.25	169.14
18	15.26	44.38	76.39	109.57	141.25	170. 9
19	16.22	45.39	77.45	111. 3	142.25	171. 5
20	17.18	46.40	78.52	112. 8	143.25	172. 1
21	18.14	47.42	79.59	113.13	144.24	172.56
22	19.11	48.44	81. 5	114.18	145.24	173.51
23	20. 8	49.46	82.11	115.23	146.23	174.46
24	21. 5	50.48	83.18	116.28	147.22	175.41
25	22. 2	51.51	84.25	117.33	148.21	176.36
26	22.59	52.54	85.32	118.38	149.19	177.31
27	23.57	53.57	86.39	119.42	150.17	178.26
28	24.54	55. 0	87.46	120.46	151.15	179.21
29	25.51	56. 3	88.52	121.50	152.13	180.16
30	26.49	57. 7	90. 0	122.53	153.11	181.11

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	181.11	208.58	238.29	270. 0	301.31	331. 2
1	182. 6	209.55	239.30	271. 4	302.33	331.59
2	183. 1	210.52	240.31	272. 8	303.34	332.55
3	183.56	211.49	241.33	273.12	304.35	333.51
4	184.51	212.46	242.35	274.16	305.36	334.48
5	185.46	213.43	243.37	275.20	306.36	335.44
6	186.42	214.41	244.39	276.24	307.37	336.40
7	187.37	215.39	245.41	277.28	308.37	337.36
8	188.32	216.37	246.44	278.32	309.37	338.32
9	189.27	217.35	247.47	279.35	310.37	339.28
10	190.22	218.33	248.49	280.39	311.37	340.24
11	191.17	219.31	249.52	281.42	312.37	341.20
12	192.13	220.30	250.55	282.45	313.37	342.16
13	193. 8	221.28	251.58	283.49	314.36	343.12
14	194. 3	222.27	253. 1	284.53	315.35	344. 7
15	194.58	223.26	254. 4	285.56	316.34	345. 2
16	195.53	224.25	255. 7	286.59	317.33	345.57
17	196.48	225.24	256.11	288. 2	318.32	346.52
18	197.44	226.23	257.15	289. 5	319.30	347.47
19	198.40	227.23	258.18	290. 8	320.29	348.43
20	199.36	228.23	259.21	291.11	321.27	349.38
21	200.32	229.23	260.25	292.13	322.25	350.33
22	201.28	230.23	261.28	293.16	323.23	351.28
23	202.24	231.23	262.32	294.19	324.21	352.23
24	203.20	232.23	263.36	295.21	325.19	353.18
25	204.16	233.24	264.40	296.23	326.17	354.14
26	205.12	234.24	265.44	297.25	327.14	355. 9
27	206. 9	235.25	266.48	298.27	328.11	356. 4
28	207. 5	236.26	267.52	299.29	329. 8	356.59
29	208. 1	237.27	268.56	300.30	330. 5	357.54
30	208.58	238.29	270. 0	301.31	331. 2	358.49

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°		° ′	° ′	° ′	° ′	° ′	′ °
0		358.25	26.27	56.53	90. 0	123. 7	153.33
1		359.20	27.25	57.57	91. 8	124.11	154.31
2		0.15	28.23	59. 1	92.16	125.15	155.29
3		1.10	29.21	60. 5	93.23	126.18	156.26
4		2. 5	30.19	61.10	94.31	127.22	157.24
5		3. 0	31.18	62.15	95.38	128.25	158.21
6		3.55	32.17	63.20	96.45	129.28	159.18
7		4.50	33.16	64.25	97.52	130.31	160.15
8		5.45	34.15	65.30	98.59	131.33	161.12
9		6.40	35.15	66.36	100. 6	132.35	162. 9
10		7.35	36.15	67.42	101.13	133.37	163. 6
11		8.31	37.15	68.48	102.20	134.39	164. 2
12		9.27	38.15	69.54	103.27	135.40	164.58
13		10.22	39.15	71. 0	104.34	136.41	165.54
14		11.18	40.16	72. 6	105.41	137.42	166.50
15		12.14	41.17	73.13	106.47	138.43	167.46
16		13.10	42.18	74.19	107.54	139.44	168.42
17		14. 6	43.19	75.26	109. 0	140.45	169.38
18		15. 2	44.20	76.33	110. 6	141.45	170.33
19		15.58	45.21	77.40	111.12	142.45	171.29
20		16.54	46.23	78.47	112.18	143.45	172.25
21		17.51	47.25	79.54	113.24	144.45	173.20
22		18.48	48.27	81. 1	114.30	145.45	174.15
23		19.45	49.29	82. 8	115.35	146.44	175.10
24		20.42	50.32	83.15	116.40	147.43	176. 5
25		21.39	51.35	84.22	117.45	148.42	177. 0
26		22.36	52.38	85.29	118.50	149.41	177.55
27		23.34	53.42	86.37	119.55	150.39	178.50
28		24.31	54.45	87.44	120.59	151.37	179.45
29		25.29	55.49	88.52	122. 3	152.35	180.40
30		26.27	56.53	90. 0	123. 7	153.33	181.35

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°		° '	° '	° '	° '	° '	° '
0		181.35	209.19	238.42	270. 0	301.18	330.41
1		182.30	210.16	239.43	271. 4	302.19	331.38
2		183.25	211.13	240.44	272. 8	303.20	332.34
3		184.20	212.10	241.45	273.11	304.21	333.30
4		185.15	213. 7	242.46	274.15	305.22	334.26
5		186.10	214. 4	243.48	275.18	306.22	335.22
6		187. 6	215. 1	244.50	276.21	307.22	336.18
7		188. 1	215.58	245.52	277.25	308.22	337.14
8		188.56	216.56	246.54	278.28	309.22	338.10
9		189.51	217.54	247.56	279.31	310.21	339. 6
10		190.46	218.52	248.58	280.34	311.21	340. 2
11		191.41	219.50	250. 0	281.37	312.20	340.58
12		192.36	220.48	251. 3	282.40	313.19	341.53
13		193.31	221.46	252. 5	283.43	314.18	342.49
14		194.26	222.45	253. 8	284.46	315.17	343.44
15		195.21	223.44	254.11	285.49	316.16	344.39
16		196.16	224.43	255.14	286.52	317.15	345.34
17		197.11	225.42	256.17	287.55	318.14	346.29
18		198. 7	226.41	257.20	288.57	319.12	347.24
19		199. 2	227.40	258.23	290. 0	320.10	348.19
20		199.58	228.39	259.26	291. 2	321. 8	349.14
21		200.54	229.39	260.29	292. 4	322. 6	350. 9
22		201.50	230.38	261.32	293. 6	323. 4	351. 4
23		202.46	231.38	262.35	294. 8	324. 2	351.59
24		203.42	232.38	263.39	295.10	324.59	352.54
25		204.38	233.38	264.42	296.12	325.56	353.50
26		205.34	234.38	265.45	297.14	326.53	354.45
27		206.30	235.39	266.49	298.15	327.50	355.40
28		207.26	236.40	267.52	299.16	328.47	356.35
29		208.22	237.41	268.56	300.17	329.44	357.30
30		209.19	238.42	270. 0	301.18	330.41	358.25

Tab. Aſcenſ. Rect. ſeu cœli

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	358. 1	26. 5	56.38	90. 0	123.22	153.55
1	358.56	27. 3	57.42	91. 8	124.26	154.53
2	359.51	28. 1	58.47	92.16	125.30	155.51
3	0.46	28.59	59.52	93.24	126.34	156.49
4	1.41	29.58	60.57	94.32	127.38	157.47
5	2.36	30.57	62. 2	95.40	128.42	158.44
6	3.31	31.56	63. 8	96.48	129.45	159.41
7	4.26	32.55	64.13	97.56	130.48	160.38
8	5.21	33.54	65.19	99. 4	131.51	161.35
9	6.16	34.54	66.25	100.11	132.53	162.32
10	7.11	35.54	67.31	101.19	133.55	163.29
11	8. 7	36.54	68.38	102.26	134.57	164.25
12	9. 3	37.55	69.45	103.33	135.59	165.21
13	9.58	38.56	70.51	104.41	137. 0	166.18
14	10.54	39.57	71.58	105.48	138. 1	167.14
15	11.50	40.58	73. 5	106.55	139. 2	168.10
16	12.46	41.59	74.12	108. 2	140. 3	169. 6
17	13.42	43. 0	75.19	109. 9	141. 4	170. 2
18	14.39	44. 1	76.27	110.15	142. 5	170.57
19	15.35	45. 3	77.34	111.22	143. 6	171.53
20	16.31	46. 5	78.41	112.29	144. 6	172.49
21	17.28	47. 7	79.49	113.35	145. 6	173.44
22	18.25	48. 9	80.56	114.41	146. 6	174.39
23	19.22	49.12	82. 4	115.47	147. 5	175.34
24	20.19	50.15	83.12	116.53	148. 4	176.29
25	21.16	51.18	84.20	117.58	149. 3	177.24
26	22.13	52.22	85.28	119. 3	150. 2	178.19
27	23.11	53.26	86.36	120. 8	151. 1	179.14
28	24. 9	54.30	87.44	121.13	151.59	180. 9
29	25. 7	55.34	88.52	122.18	152.57	181. 4
30	26. 5	56.38	90. 0	123.22	153.55	181.59

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	° ′	° ′	°	° ′	° ′	° ′
0	181.59	209.40	238.55	270. 0	301. 5	330.20
1	182.54	210.37	239.55	271. 2	302. 6	331.16
2	183.49	211.34	240.56	272. 6	303. 6	332.12
3	184.44	212.31	241.57	273. 9	304. 7	333. 8
4	185.39	213.27	242.58	274.12	305. 7	334. 4
5	186.34	214.24	243.59	275.15	306. 7	335. 0
6	187.30	215.21	245. 1	276.18	307. 7	335.56
7	188.25	216.18	246. 2	277.21	308. 7	336.52
8	189.20	217.15	247. 4	278.24	309. 6	337.48
9	190.15	218.13	248. 6	279.26	310. 5	338.43
10	191.10	219.11	249. 7	280.29	311. 4	339.39
11	192. 5	220. 9	250. 9	281.32	312. 3	340.35
12	193. 0	221. 7	251.11	282.34	313. 2	341.30
13	193.55	222. 5	252.13	283.37	314. 1	342.25
14	194.50	223. 3	253.15	284.40	315. 0	343.20
15	195.45	224. 2	254.18	285.42	315.58	344.15
16	196.40	225. 0	255.20	286.45	316.57	345.10
17	197.35	225.59	256.23	287.47	317.55	346. 5
18	198.30	226.58	257.26	288.49	318.53	347. 0
19	199.25	227.57	258.28	289.51	319.51	347.55
20	200.21	228.56	259.31	290.53	320.49	348.50
21	201.17	229.55	260.34	291.55	321.47	349.45
22	202.12	230.54	261.36	292.56	322.45	350.40
23	203. 8	231.53	262.39	293.58	323.42	351.35
24	204. 4	232.53	263.42	294.59	324.39	352.30
25	205. 0	233.53	264.45	296. 1	325.36	353.26
26	205.56	234.53	265.48	297. 2	326.33	354.21
27	206.52	235.53	266.51	298. 2	327.29	355.16
28	207.48	236.54	267.54	299. 4	328.26	356.11
29	208.44	237.54	268.57	300. 5	329.23	357. 6
30	209.40	238.55	270. 0	301. 5	330.20	358. 1

Tab. Aſcenſionum Rect. ſeu Cœli

	♈	♉	♊	♋	♌	♍
o	o /	o /	o /	o /	o /	o /
0	357.37	25.42	56.23	90. 0	123.37	154.18
1	358.32	26.40	57.28	91. 9	124.42	155.16
2	359.27	27.38	58.33	92.18	125.46	156.14
3	0.22	28.37	59.38	93.26	126.50	157.12
4	1.17	29.36	60.44	94.35	127.54	158.10
5	2.12	30.35	61.50	95.43	128.58	159. 8
6	3. 7	31.34	62.56	96.51	130. 2	160. 5
7	4. 2	32.33	64. 2	98. 0	131. 5	161. 2
8	4.57	33.33	65. 8	99. 8	132. 8	161.59
9	5.52	34.33	66.14	100.16	133.11	162.56
10	6.47	35.33	67.21	101.24	134.14	163.53
11	7.43	36.33	68.28	102.32	135.16	164.49
12	8.39	37.34	69.35	103.40	136.18	165.45
13	9.34	38.35	70.42	104.48	137.20	166.42
14	10.30	39.36	71.49	105.56	138.21	167.38
15	11.26	40.38	72.57	107. 3	139.22	168.34
16	12.22	41.39	74. 4	108.11	140.24	169.30
17	13.18	42.40	75.12	109.18	141.25	170.26
18	14.15	43.42	76.20	110.25	142.26	171.21
19	15.11	44.44	77.28	111.32	143.27	172.17
20	16. 7	45.46	78.36	112.39	144.27	173.13
21	17. 4	46.49	79.44	113.46	145.27	174. 8
22	18. 1	47.52	80.52	114.52	146.27	175. 3
23	18.58	48.55	82. 0	115.58	147.27	175.58
24	19.55	49.58	83. 9	117. 4	148.26	176.53
25	20.52	51. 2	84.17	118.10	149.25	177.48
26	21.50	52. 6	85.25	119.16	150.24	178.43
27	22.48	53.10	86.34	120.22	151.23	179.38
28	23.46	54.14	87.42	121.27	152.22	180.33
29	24.44	55.18	88.51	122.32	153.20	181.28
30	25.42	56.23	90. 0	123.37	154.18	182.23

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°	° ′	° ′	° ′	° ′	° ′	° ′
0	182.23	210. 1	239. 7	270. 0	300.53	329.59
1	183.18	210.57	240. 7	271. 3	301.53	330.55
2	184.13	211.54	241. 8	272. 6	302.53	331.51
3	185. 8	212.51	242. 9	273. 8	303.53	332.47
4	186. 3	213.47	243. 9	274.11	304.53	333.43
5	186.58	214.44	244.10	275.13	305.52	334.39
6	187.53	215.41	245.11	276.15	306.52	335.34
7	188.48	216.38	246.12	277.18	307.51	336.30
8	189.43	217.35	247.13	278.20	308.50	337.26
9	190.38	218.32	248.15	279.22	309.49	338.21
10	191.33	219.29	249.16	280.25	310.48	339.17
11	192.28	220.27	250.17	281.27	311.47	340.12
12	193.23	221.25	251.19	282.29	312.46	341. 7
13	194.18	222.23	252.21	283.31	313.45	342. 2
14	195.13	223.21	253.23	284.33	314.43	342.57
15	196. 8	224.19	254.25	285.35	315.41	343.52
16	197. 3	225.17	255.27	286.37	316.39	344.47
17	197.58	226.15	256.29	287.39	317.37	345.42
18	198.53	227.14	257.31	288.41	318.35	346.37
19	199.48	228.13	258.33	289.43	319.33	347.32
20	200.43	229.12	259.35	290.44	320.31	348.27
21	201.39	230.11	260.38	291.45	321.28	349.22
22	202.34	231.10	261.40	292.47	322.25	350.17
23	203.30	232. 9	262.42	293.48	323.22	351.12
24	204.26	233. 8	263.45	294.49	324.19	352. 7
25	205.21	234. 8	264.47	295.50	325.16	353. 2
26	206.17	235. 7	265.49	296.51	326.13	353.57
27	207.13	236. 7	266.52	297.51	327. 9	354.52
28	208. 9	237. 7	267.54	298.52	328. 6	355.47
29	209. 5	238. 7	268.57	299.53	329. 3	356.42
30	210. 1	239. 7	270. 0	300.53	329.59	357.37

Tab. Aſcenſionum rect. ſeu Cœli

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	357.13	25.19	56. 8	90. 0	123.52	154.41
1	358. 8	26.17	57.12	91. 9	124.57	155.39
2	359. 3	27.16	58.19	92.18	126. 2	156.37
3	359.58	28.15	59.25	93.27	127. 6	157.35
4	0.53	29.14	60.31	94.36	128.11	158.33
5	1.48	30.13	61.37	95.45	129.15	159.31
6	2.43	31.12	62.44	96.54	130.19	160.28
7	3.38	32.12	63.50	98. 3	131.23	161.25
8	4.33	33.12	64.56	99.12	132.26	162.22
9	5.28	34.12	66. 3	100.21	133.29	163.19
10	6.23	35.12	67.10	101.30	134.32	164.16
11	7.19	36.13	68.18	102.38	135.35	165.13
12	8.14	37.14	69.26	103.46	136.37	166. 9
13	9.10	38.15	70.33	104.55	137.39	167. 6
14	10. 6	39.16	71.41	106. 3	138.41	168. 2
15	11. 2	40.18	72.49	107.11	139.42	168.58
16	11.58	41.19	73.57	108.19	140.44	169.54
17	12.54	42.21	75. 5	109.27	141.45	170.50
18	13.51	43.23	76.14	110.34	142.46	171.45
19	14.47	44.25	77.22	111.42	143.47	172.41
20	15.44	45.28	78.30	112.50	144.48	173.37
21	16.41	46.31	79.39	113.57	145.48	174.32
22	17.38	47.34	80.48	115. 4	146.48	175.27
23	18.35	48.37	81.57	116.10	147.48	176.22
24	19.32	49.41	83. 6	117.16	148.48	177.17
25	20.29	50.45	84.15	118.23	149.47	178.12
26	21.27	51.49	85.24	119.29	150.46	179. 7
27	22.25	52.54	86.33	120.35	151.45	180. 2
28	23.23	53.58	87.42	121.41	152.44	180.57
29	24.21	55. 3	88.51	122.47	153.43	181.52
30	25.19	56. 8	90. 0	123.52	154.41	182.47

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o	o '	o '	o '	o '	o '	o '
0	182.47	210.22	239.20	270. 0	300.40	329.38
1	183.42	211.18	240.20	271. 2	301.40	330.34
2	184.37	212.14	241.20	272. 4	302.40	331.30
3	185.32	213.11	242.21	273. 6	303.39	332.25
4	186.27	214. 7	243.21	274. 8	304.39	333.21
5	187.22	215. 4	244.21	275.10	305.38	334.17
6	188.17	216. 1	245.22	276.12	306.37	335.12
7	189.12	216.57	246.22	277.14	307.36	336. 8
8	190. 7	217.54	247.23	278.16	308.35	337. 3
9	191. 2	218.51	248.24	279.18	309.33	337.58
10	191.57	219.48	249.25	280.20	310.32	338.54
11	192.52	220.45	250.26	281.22	311.31	339.49
12	193.47	221.43	251.27	282.23	312.29	340.44
13	194.41	222.41	252.28	283.25	313.27	341.39
14	195.36	223.39	253.30	284.27	314.25	342.34
15	196.31	224.37	254.32	285.28	315.23	343.29
16	197.26	225.35	255.33	286.30	316.21	344.24
17	198.21	226.33	256.35	287.32	317.19	345.19
18	199.16	227.31	257.37	288.33	318.17	346.13
19	200.11	228.29	258.38	289.34	319.15	347. 8
20	201. 6	229.28	259.40	290.35	320.12	348. 3
21	202. 2	230.27	260.42	291.36	321. 9	348.58
22	202.57	231.25	261.44	292.37	322. 6	349.53
23	203.52	232.24	262.46	293.38	323. 3	350.48
24	204.48	233.23	263.48	294.38	323.59	351.43
25	205.43	234.22	264.50	295.39	324.56	352.38
26	206.39	235.21	265.52	296.39	325.53	353.33
27	207.35	236.21	266.54	297.39	326.49	354.28
28	208.30	237.20	267.56	298.40	327.46	355.23
29	209.26	238.20	268.58	299.40	328.42	356.18
30	210.22	239.20	270. 0	300.40	329.38	357.13

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°	° ′	° ′	° ′	° ′	° ′	° ′
0	356.48	24.56	55.53	90. 0	124. 7	155. 4
1	357.43	25.54	56.59	91.10	125.12	156. 3
2	358.38	26.53	58. 5	92.20	126.17	157. 1
3	359.34	27.52	59.11	93.29	127.22	157.59
4	0.29	28.51	60.17	94.39	128.27	158.57
5	1.24	29.50	61.24	95.49	129.32	159.55
6	2.19	30.50	62.31	96.58	130.36	160.52
7	3.14	31.50	63.38	98. 8	131.40	161.49
8	4. 9	32.50	64.45	99.17	132.44	162.46
9	5. 4	33.51	65.52	100.26	133.47	163.43
10	5.59	34.51	67. 0	101.35	134.50	164.40
11	6.55	35.52	68. 8	102.44	135.53	165.37
12	7.51	36.53	69.16	103.53	136.56	166.33
13	8.46	37.54	70.24	105. 2	137.58	167.30
14	9.42	38.56	71.32	106.	139. 0	168.26
15	10.38	39.58	72.41	107.19	140. 2	169.22
16	11.34	41. 0	73.49	108.28	141. 4	170.18
17	12.30	42. 2	74.58	109.36	142. 6	171.14
18	13.27	43. 4	76. 7	110.44	143. 7	172. 9
19	14.23	44. 7	77.16	111.52	144. 8	173. 5
20	15.20	45.10	78.25	113. 0	145. 9	174. 1
21	16.17	46.13	79.34	114. 8	146. 9	174.56
22	17.14	47.16	80.43	115.15	147.10	175.51
23	18.11	48.20	81.52	116.22	148.10	176.46
24	19. 8	49.24	83. 2	117.29	149.10	177.41
25	20. 5	50.28	84.11	118.36	150.10	178.36
26	21. 3	51.33	85.21	119.43	151. 9	179.31
27	22. 1	52.38	86.31	120.49	152. 8	180.26
28	22.59	53.43	87.40	121.55	153. 7	181.22
29	23.57	54.48	88.50	123. 1	154. 6	182.17
30	24.56	55.53	90. 0	124. 7	155. 4	183.12

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	183.12	201.43	239.32	270. 0	300.28	329.17
1	184. 6	211.39	240.32	271. 2	301.28	330.13
2	185. 1	212.35	241.32	272. 4	302.27	331. 9
3	185.5[illegible]	213.31	242.32	273. 5	303.26	332. 4
4	186.50	214.27	243.32	274. 7	304.25	333. 0
5	187.45	215.23	244.32	275. 9	305.24	333.55
6	188.40	216.20	245.32	276.10	306.23	334.50
7	189.35	217.16	246.32	277.12	307.22	335.46
8	190.30	218.13	247.33	278.13	308.20	336.41
9	191.25	219.10	248.33	279.14	309.18	337.36
10	192.19	220. 7	249.33	280.16	310.17	338.31
11	193.14	221. 4	250.34	281.17	311.15	339.26
12	194. 9	222. 1	251.35	282.18	312.13	340.21
13	195. 4	222.58	252.36	283.20	313.11	341.16
14	195.59	223.56	253.37	284.21	314. 9	342.11
15	196.54	224.54	254.38	285.22	315. 6	343. 6
16	197.49	225.51	255.39	286.23	316. 4	344. 1
17	198.44	226.49	256.40	287.24	317. 2	344.56
18	199.39	227.47	257.42	288.25	317.59	345.51
19	200.34	228.45	258.43	289.26	318.56	346.46
20	201.29	229.43	259.44	290.27	319.53	347.41
21	202.24	230.42	260.46	291.27	320.50	348.35
22	203.19	231.40	261.47	292.27	321.47	349.30
23	204.14	232.38	262.48	293.28	322.44	350.25
24	205.10	233.37	263.50	294.28	323.40	351.20
25	206. 5	234.36	264.51	295.28	324.37	352.15
26	207. 0	235.35	265.53	296.28	325.33	353.10
27	207.56	236.34	266.55	297.28	326.29	354. 4
28	208.51	237.33	267.56	298.28	327.25	354.59
29	209.46	238.32	268.58	299.28	328.21	355.54
30	210.43	239.32	270. 0	300.28	329.17	556.4[illegible]

Tab. Aſcenſion. Rectar. ſeu Cœli

	♈	♉	♊	♋	♌	♍
	° ′	° ′	° ′	° ′	° ′	° ′
0	0.23	28.16	58. 2	90. 0	121.58	151.44
1	1.18	29.13	59. 4	91. 5	123. 0	152.41
2	2.13	30.10	60. 6	92.10	124. 2	153.38
3	3. 8	31. 7	61. 9	93.15	125. 3	154.35
4	4. 3	32. 5	62.11	94.20	126. 5	155.32
5	4.58	33. 3	63.14	95.25	127. 7	156.29
6	5.54	34. 1	64.17	96.30	128. 8	157.25
7	6.49	34.59	65.20	97.35	129. 9	158.22
8	7.44	35.57	66.23	98.39	130.10	159.18
9	8.39	36.56	67.27	99.43	131.10	160.14
10	9.34	37.54	68.30	100.48	132.11	161.10
11	10.29	38.53	69.34	101.53	133.11	162. 6
12	11.25	39.52	70.38	102.57	134.11	163. 2
13	12.20	40.51	71.42	104. 2	135.11	163.58
14	13.16	41.50	72.46	105. 6	136.11	164.53
15	14.12	42.50	73.50	106.10	137.10	165.48
16	15. 7	43.49	74.54	107.14	138.10	166.44
17	16. 2	44.49	75.58	108.18	139. 9	167.40
18	16.58	45.49	77. 3	109.22	140. 8	168.35
19	17.54	46.49	78. 7	110.26	141. 7	169.31
20	18.50	47.49	79.12	111.30	142. 6	170.16
21	19.46	48.50	80.17	112.33	143. 4	171.21
22	20.42	49.50	81.21	113.37	144. 3	172.16
23	21.38	50.51	82.25	114.40	145. 1	173.11
24	22.35	51.52	83.30	115.43	145.59	174. 6
25	23.31	52.53	84.35	116.46	146.57	175. 2
26	24.28	53.55	85.40	117.49	147.55	175.57
27	25.25	54.57	86.45	118.51	148.53	176.52
28	26.22	55.58	87.50	119.54	149.50	177.47
29	27.19	57. 0	88.55	120.56	150.47	178.42
30	28.16	58. 2	90. 0	121.58	151.44	179.37

Mediat.ad Latitud.Merid.1.Grad.

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	179.37	207.33	237.35	270. 0	302.25	332.27
1	180.32	208.30	238.38	271. 6	303.28	333.25
2	181.27	209.27	239.41	272.12	304.31	334.22
3	182.22	210.25	240.44	273.18	3[illegible].33	335.19
4	183.17	211.23	241.47	274.24	306.36	336.16
5	184.12	212.21	242.51	275.30	307.38	337.13
6	185. 7	213.20	243.55	276.36	308.40	338.10
7	186. 2	214.18	244.59	277.42	309.42	339. 7
8	186.57	215.17	246. 3	278.47	310.43	340. 4
9	187.52	216.16	247. 7	279.52	311.44	341. 0
10	188.47	217.15	248.11	280.58	312.45	341.56
11	189.42	218.14	249.16	282. 4	313.46	342.52
12	190.38	219.14	250.21	283. 9	314.46	343.48
13	191.33	220.13	251.26	284.14	315.47	344.42
14	192.29	221.13	252.31	285.19	316.47	345.40
15	193.25	222.13	253.36	286.24	317.47	346.35
16	194.20	223.13	254.41	287.29	318.47	347.31
17	195.16	224.13	255.46	288.34	319.47	348.27
18	196.12	225.14	256.51	289.39	320.46	349.22
19	197. 8	226.14	257.56	290.44	321.46	350.18
20	198. 4	227.15	259. 2	291.49	322.45	3[illegible]1.13
21	199. 0	228.16	260. 8	292.53	323.44	352. 8
22	199.56	229.17	261.13	293.57	324.43	353. 8
23	200.53	230.18	262.18	295. 1	325.42	353.58
24	201.50	231.20	263.24	296. 5	326.40	354.53
25	202.47	232.22	264.30	297. 9	327.39	355.48
26	203.44	233.24	265.36	298.13	328.37	356.43
27	204.41	234.27	266.42	299.16	329.35	357.38
28	205.38	235.29	267.48	300.19	330.33	358.33
29	206.35	236.32	268.54	301.22	331.30	359.28
30	207.33	237.35	270. 0	302.25	332.27	360.23

D		♈	♉	♊	♋	♌	♍
		° '	° '	° '	° '	° '	° '
0		0.47	28.37	58.15	90. 0	121.45	151.23
1		1.42	29.34	59.17	91. 5	122.47	152.20
2		2.37	30.31	60.19	92.10	123.48	153.17
3		3.32	31.28	61.21	93.14	124.49	154.13
4		4.27	32.25	62.23	94.19	125.51	155.10
5		5.22	33.23	63.25	95.23	126.52	156. 7
6		6.18	34.21	64.28	96.27	127.53	157. 3
7		7.13	35.19	65.31	97.31	128.54	157.59
8		8. 8	36.17	66.34	98.35	129.54	158.55
9		9. 3	37.15	67.37	99.39	130.54	159.51
10		9.58	38.13	68.40	100.43	131.54	160.47
11		10.53	39.12	69.43	101.47	132.54	161.43
12		11.48	40.11	70.46	102.51	133.54	162.39
13		12.43	41.10	71.49	103.55	134.54	163.35
14		13.39	42. 9	72.53	104.59	135.53	164.30
15		14.35	43. 8	73.57	106. 3	136.52	165.25
16		15.39	44. 7	75. 1	107. 7	137.51	166.21
17		16.25	45. 6	76. 5	108.11	138.50	167.17
18		17.21	46. 6	77. 9	109.14	139.49	168.12
19		18.17	47. 6	78.13	110.17	140.48	169. 7
20		19.13	48. 6	79.17	111.20	141.47	170. 2
21		20. 9	49. 6	80.21	112.23	142.45	170.57
22		21. 5	50. 6	81.25	113.26	143.43	171.52
23		22. 1	51. 6	82.29	114.29	144.41	172.47
24		22.57	52. 7	83.33	115.32	145.39	173.42
25		23.53	53. 8	84.37	116.35	146.37	174.38
26		24.50	54. 9	85.41	117.37	147.35	175.33
27		25.47	55.11	86.46	118.39	148.32	176.28
28		26.43	56.12	87.50	119.41	149.29	177.23
29		27.40	57.13	88.55	120.43	150.26	178.18
30		28.37	58.15	90. 0	121.45	151.23	179.13

Mediat. ad Latitud. Merid. 2. Grad.

	♎	♏	♐	♑	♒	♓
o	o '	o '	o '	o '	o '	o '
0	179.13	207.11	237.21	270. 0	302.39	332.49
1	180. 8	208. 8	238.24	271. 7	303.42	333.47
2	181. 3	209. 6	239.27	272.14	304.45	334.44
3	181.58	210. 4	240.31	273.20	305.48	335.41
4	182.53	211. 2	241.35	274.27	306.51	336.39
5	183.48	212. 0	242.39	275.33	307.54	337.36
6	184.43	212.59	243.43	276.39	308.56	338.33
7	185.38	213.58	244.47	277.45	309.58	339.30
8	186.33	214.57	245.52	278.51	311. 0	340.27
9	187.28	215.56	246.57	279.57	312. 1	341.23
10	188.23	216.55	248. 2	281. 3	313. 2	342.19
11	189.18	217.54	249. 7	282. 9	314. 3	343.15
12	190.14	218.54	250.12	283.15	315. 4	344.11
13	191. 9	219.54	251.17	284.21	316. 5	345. 7
14	192. 5	220.54	252.22	285.27	317. 6	346. 3
15	193. 1	221.54	253.28	286.32	318. 6	346.59
16	193.57	222.54	254.33	287.38	319. 6	347.55
17	194.53	223.55	255.39	288.43	320. 6	348.51
18	195.49	224.56	256.45	289.48	321. 6	349.46
19	196.45	225.57	257.51	290.53	322. 6	350.42
20	197.41	226.58	258.57	291.58	323. 5	351.37
21	198.37	227.59	260. 3	293. 3	324. 4	352.32
22	199.33	229. 0	261. 9	294. 8	325. 3	353.27
23	200.30	230. 2	262.15	295.13	326. 2	354.22
24	201.27	231. 4	263.21	296.17	327. 1	355.17
25	202.24	232. 6	264.27	297.21	328. 0	356.12
26	203.21	233. 9	265.33	298.25	328.58	357. 7
27	204.19	234.12	266.40	299.29	329.56	358. 2
28	205.16	235.15	267.46	300.33	330.54	358.57
29	206.13	236.18	268.53	301.36	331.52	359.52
30	207.11	237.21	270. 0	302.39	332.49	360.47

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	1.11	28.58	58.29	90 0	121.31	151. 2
1	2. 6	29.55	59.30	91. 4	122.33	151.59
2	3. 1	30.52	60.31	92. 8	123.34	152.55
3	3.56	31.49	61.33	93.12	124.35	153.51
4	4.51	32.46	62.35	94.16	125.36	154.48
5	5.46	33.43	63.37	95.20	126.36	155.44
6	6.42	34.41	64.39	96.24	127.37	156.40
7	7.37	35.39	65.41	97.28	128.37	157.36
8	8.32	36.37	66.44	98.32	129.37	158.32
9	9.27	37.35	67.47	99.35	130.37	159.28
10	10.22	38.33	68.49	100.39	131.37	160.24
11	11.17	39.31	69.52	101.42	132.37	161.20
12	12.13	40.30	70.55	102.45	133.37	162.16
13	13. 8	41.28	71.58	103.49	134.36	163.12
14	14. 3	42.27	73. 1	104.53	135.35	164. 7
15	14.58	43.26	74. 4	105.56	136.34	165. 2
16	15.53	44.25	75. 7	106.59	137.33	165.57
17	16.48	45.24	76.11	108. 2	138.32	166.52
18	17.44	46.23	77.15	109. 5	139.30	167.47
19	18.40	47.23	78.18	110. 8	140.29	168.43
20	19.36	48.23	79.21	111.11	141.27	169.38
21	20.32	49.23	80.25	112.13	142.25	170.33
22	21.28	50.23	81.28	113.16	143.23	171.28
23	22.24	51.23	82.32	114.19	144.21	172.23
24	23.20	52.23	83.36	115.21	145.19	173.18
25	24.16	53.24	84.40	116.23	146.17	174.14
26	25.12	54.24	85.44	117.25	147.14	175. 9
27	26. 9	55.25	86.48	118.27	148.11	176. 4
28	27. 5	56.26	87.52	119.29	149. 8	176.59
29	28. 1	57.27	88.56	120.30	150. 5	177.54
30	28.58	58.29	90. 0	121.31	151. 2	178.49

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	178.49	206.49	237. 7	270. 0	302.53	333.11
1	179.44	207.47	238.10	271. 7	303.57	334. 9
2	180.39	208.45	239.14	272.14	305. 0	335. 6
3	181.34	209.43	240.18	273.21	306. 3	336. 3
4	182.29	210.41	241.28	274.28	307. 6	337. 1
5	183.24	211.39	242.27	275.35	308. 9	337.58
6	184.19	212.38	243.32	276.42	309.12	338.55
7	185.14	213.37	244.37	277.49	310.14	339.52
8	186. 9	214.36	245.42	278.55	311.16	340.49
9	187. 4	215.36	246.47	280. 1	312.18	341.46
10	187.59	216.35	247.52	281. 8	313.20	342.42
11	188.55	217.35	248.57	282.15	314.21	343.38
12	189.51	218.35	250. 3	283.22	315.22	344.34
13	190.46	219.35	251. 9	284.27	316.23	345.30
14	191.42	220.35	252.15	285.33	317.24	346.26
15	192.38	221.36	253.21	286.39	318.24	347.22
16	193.34	222.36	254.27	287.45	319.25	348.18
17	194.30	223.37	255.33	288.51	320.25	349.14
18	195.26	224.38	256.39	289.57	321.25	350. 9
19	196.22	225.39	257.45	291. 3	322.25	351. 5
20	197.18	226.40	258.52	292. 8	323.25	352. 1
21	198.14	227.42	259.59	293.13	324.24	352.56
22	199.11	228.44	261. 5	294.18	325.24	353.51
23	200. 8	229.46	262.11	295.23	326.23	354.46
24	201. 5	230.48	263.18	296.28	327.22	355.41
25	202. 2	231.51	264.25	297.33	328.21	356.36
26	202.59	232.54	265.32	298.38	329.19	357.31
27	203.57	233.57	266.39	299.42	330.17	358.26
28	204.54	235. 0	267.46	300.46	331.15	359.21
29	205.51	236. 3	268.53	301.50	332.13	360.16
30	206.49	237. 7	270. 0	302.53	333.11	361.11

Tab. Decl. ad Lat. Septentrional.

♍	8	7	6	5	4	3	2	1
°	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
0	4. 0	4.56	5.53	6.49	7.45	8.42	9.38	10.34
1	4.21	5.17	6.14	7.10	8. 6	9. 3	9.59	10.55
2	4.41	5.37	6.34	7.30	8.27	9.23	10.19	11.16
3	5. 1	5.57	6.54	7.50	8.47	9.43	10.39	11.36
4	5.21	6.17	7.14	8.10	9. 7	10. 3	11. 0	11.57
5	5.41	6.37	7.34	8.30	9.27	10.23	11.20	12.17
6	6. 0	6.56	7.53	8.50	9.47	10.43	11.40	12.37
7	6.19	7.15	8.12	9. 9	10. 6	11. 3	12. 0	12.57
8	6.38	7.34	8.31	9.28	10.25	11.22	12.19	13.16
9	6.56	7.53	8.50	9.47	10.44	11.41	12.38	13.35
10	7.15	8.12	9. 9	10. 6	11. 3	12. 0	12.57	13.54
11	7.33	8.30	9.27	10.24	11.22	12.19	13.16	14.13
12	7.51	8.48	9.45	10.42	11.40	12.37	13.34	14.31
13	8. 9	9. 6	10. 3	11. 0	11.58	12.55	13.52	14.49
14	8.26	9.23	10.21	11.18	12.16	13.13	14.10	15. 7
15	8.43	9.40	10.38	11.35	12.33	13.30	14.27	15.25
16	9. 0	9.57	10.55	11.52	12.50	13.47	14.45	15.42
17	9.16	10.14	11.12	12. 9	13. 7	14. 4	15. 2	15.59
18	9.32	10.30	11.28	12.25	13.23	14.21	15.19	16.16
19	9.48	10.46	11.44	12.41	13.39	14.37	15.35	16.33
20	10. 4	11. 2	12. 0	12.57	13.55	14.53	15.51	16.49
21	10.19	11.17	12.15	13.13	14.11	15. 9	16. 7	17. 5
22	10.34	11.32	12.30	13.28	14.27	15.25	16.23	17.21
23	10.49	11.47	12.45	13.43	14.42	15.40	16.38	17.36
24	11. 4	12. 2	13. 0	13.58	14.57	15.55	16.53	17.51
25	11.18	12.16	13.14	14.12	15.11	16. 9	17. 7	18. 6
26	11.32	12.30	13.28	14.26	15.25	16.23	17.21	18.20
27	11.45	12.43	13.41	14.40	15.38	16.37	17.35	18.34
28	11.58	12.56	13.54	14.53	15.51	16.50	17.49	18.47
29	12.11	13. 9	14. 7	15. 6	16. 4	17. 3	18. 2	19. 0
30	12.23	13.21	14.20	15.19	16.17	17.16	18.15	19.13

	♎	♏	♐	♑	♒	♓
g	° ′	° ′	° ′	° ′	° ′	° ′
0	178.25	206.27	236.53	270. 0	303. 7	333.33
1	179.20	207.25	237.57	271. 8	304.11	334.31
2	180.15	208.23	239. 1	272.16	305.15	335.29
3	181.10	209.21	240. 5	273.23	306.18	336.26
4	182. 5	210.19	241.10	274.31	307.22	337.24
5	183. 0	211.18	242.15	275.38	308.25	338.21
6	183.55	212.17	243.20	276.45	309.28	339.18
7	184.50	213.16	244.25	277.52	310.31	340.15
8	185.45	214.15	245.30	278.59	311.33	341.12
9	186.40	215.15	246.36	280. 6	312.35	342. 9
10	187.35	216.15	247.42	281.13	313.37	343. 6
11	188.31	217.15	248.48	282.20	314.39	344. 2
12	189.27	218.15	249.54	283.27	315.40	344.58
13	190.22	219.15	251. 0	284.34	316.41	345.54
14	191.18	220.16	252. 6	285.41	317.42	346.50
15	192.14	221.17	253.13	286.47	318.43	347.46
16	193.10	222.18	254.19	287.54	319.44	348.42
17	194. 6	223.19	255.26	289. 0	320.45	349.38
18	195. 2	224.20	256.33	290. 6	321.45	350.33
19	195.58	225.21	257.40	291.12	322.45	351.29
20	196.54	226.23	258.47	292.18	323.45	352.25
21	197.51	227.25	259.54	293.24	324.45	353.20
22	198.48	228.27	261. 1	294.30	325.45	354.15
23	199.45	229.29	262. 8	295.35	326.44	355.10
24	200.42	230.32	263.15	296.40	327.43	356. 5
25	201.39	231.35	264.22	297.45	328.42	357. 0
26	202.36	232.38	265.29	298.50	329.41	357.55
27	203.34	233.42	266.37	299.55	330.39	358.50
28	204.31	234.45	267.44	300.59	331.37	359.45
29	205.29	235.49	268.52	302. 3	332.35	360.40
30	206.27	236.53	270. 0	303. 7	333.33	361.35

Tab. Aſcenſ. Rect. ſeu Cœli

°	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	1.59	29.40	58.55	90. 0	121. 5	150.20
1	2.54	30.37	59.55	91. 3	122. 6	151.16
2	3.49	31.34	60.56	92. 6	123. 6	152.12
3	4.44	32.31	61.57	93. 9	124. 7	153. 8
4	5.39	33.27	62.58	94.12	125. 7	154. 4
5	6.34	34.24	63.59	95.15	126. 7	155. 0
6	7.30	35.21	65. 1	96.18	127. 7	155.56
7	8.25	36.18	66. 2	97.21	128. 7	156.52
8	9.20	37.15	67. 4	98.24	129. 6	157.48
9	10.15	38.13	68. 6	99.26	130. 5	158.43
10	11.10	39.11	69. 7	100.29	131. 4	159.39
11	12. 5	40. 9	70. 9	101.32	132. 3	160.35
12	13. 0	41. 7	71.11	102.34	133. 2	161.30
13	13.55	42. 5	72.13	103.37	134. 1	162.25
14	14.50	43. 3	73.15	104.40	135. 0	163.20
15	15.45	44. 2	74.18	105.42	135.58	164.15
16	16.40	45. 0	75.20	106.45	136.57	165.10
17	17.35	45.59	76.23	107.47	137.55	166. 5
18	18.30	46.58	77.26	108.49	138.53	167. 0
19	19.25	47.57	78.28	109.51	139.51	167.55
20	20.21	48.56	79.31	110.53	140.49	168.50
21	21.17	49.55	80.34	111.54	141.47	169.45
22	22.12	50.54	81.36	112.56	142.45	170.40
23	23. 8	51.53	82.39	113.58	143.42	171.35
24	24. 4	52.53	83.42	114.59	144.39	172.30
25	25. 0	53.53	84.45	116. 1	145.36	173.26
26	25.56	54.53	85.48	117. 2	146.33	174.21
27	26.52	55.53	86.51	118. 3	147.29	175.16
28	27.48	56.54	87.54	119. 4	148.26	176.11
29	28.44	57.54	88.57	120. 5	149.23	177. 6
30	29.40	58.55	90. 0	121. 5	150.20	178. 1

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	178. 1	206. 5	236.37	270. 0	303.22	333.55
1	178.56	207. 3	237.42	271. 8	304.26	334.53
2	179.51	208. 1	238.47	272.16	305.30	335.51
3	180.46	208.59	239.52	273.24	306.34	336.49
4	181.41	209.58	240.57	274.32	307.38	337.47
5	182.36	210.57	242. 2	275.40	308.42	338.44
6	183.31	211.56	243. 8	276.48	309.45	339.41
7	184.26	212.55	244.13	277.56	310.48	340.38
8	185.21	213.54	245.19	279. 4	311.51	341.35
9	186.16	214.54	246.25	280.11	312.53	342.32
10	187.11	215.54	247.31	281.19	313.55	343.29
11	188. 7	216.54	248.38	282.26	314.57	344.25
12	189. 3	217.55	249.45	283.33	315.59	345.21
13	189.58	218.56	250.51	284.41	317. 0	346.18
14	190.54	219.57	251.58	285.48	318. 1	347.14
15	191.50	220.58	253. 5	286.55	319. 2	348.10
16	192.46	221.59	254.12	288. 2	320. 3	349. 6
17	193.42	223. 0	255.19	289. 9	321. 4	350. 2
18	194.39	224. 1	256.27	290.15	322. 5	350.57
19	195.35	225. 3	257.34	291.22	323. 6	351.53
20	196.31	226. 5	258.41	292.29	324. 6	352.49
21	197.28	227. 7	259.49	293.35	325. 6	353.44
22	198.25	228. 9	260.56	294.40	326. 6	354.39
23	199.22	229.12	262. 4	295.47	327. 5	355.34
24	200.19	230.15	263.12	296.53	328. 4	356.29
25	201.16	231.18	264.20	297.58	329. 3	357.24
26	202.13	232.22	265.28	299. 3	330. 2	358.19
27	203.11	233.26	266.36	300. 8	331. 1	359.14
28	204. 9	234.30	267.44	301.13	331.59	360. 9
29	205. 7	235.34	268.52	302.18	332.57	361. 4
30	206. 5	236.38	270. 0	303.22	333.55	361.59

		♈	♉	♊	♋	♌	♍
o		o '	o '	o '	o '	o '	o '
0		2.23	30. 1	59. 7	90. 0	120.53	149.59
1		3.18	30.57	60. 7	91. 3	121.53	150.55
2		4.13	31.54	61. 8	92. 6	122.53	151.51
3		5. 8	32.51	62. 9	93. 8	123.53	152.47
4		6. 3	33.47	63. 9	94.11	124.53	153.43
5		6.58	34.44	64.10	95.13	125.52	154.39
6		7.53	35.41	65.11	96.15	126.52	155.34
7		8.48	36.38	66.12	97.18	127.51	156.30
8		9.43	37.35	67.13	98.20	128.50	157.26
9		10.38	38.32	68.15	99.22	129.49	158.21
10		11.33	39.29	69.16	100.25	130.48	159.17
11		12.28	40.27	70.17	101.27	131.47	160.12
12		13.23	41.25	71.19	102.29	132.46	161. 7
13		14.18	42.23	72.21	103.31	133.45	162. 2
14		15.13	43.21	73.23	104.33	134.43	162.57
15		16. 8	44.19	74.25	105.35	135.41	163.52
16		17. 3	45.17	75.27	106.37	136.39	164.47
17		17.58	46.15	76.29	107.39	137.37	165.42
18		18.53	47.14	77.31	108.41	138.35	166.37
19		19.48	48.13	78.33	109.43	139.33	167.32
20		20.43	49.12	79.35	110.44	140.31	168.27
21		21.39	50.11	80.38	111.45	141.28	169.22
22		22.34	51.10	81.40	112.47	142.25	170.17
23		23.30	52. 9	82.42	113.48	143.22	171.12
24		24.26	53. 8	83.45	114.49	144.19	172. 7
25		25.21	54. 8	84.47	115.50	145.16	173. 2
26		2[illegible].17	55. 7	85.49	116.51	146.13	173.57
27		27.13	56. 7	86.52	117.51	147. 9	174.52
28		28. 9	57. 7	87.54	118.52	148 6	175.47
29		29. 5	58. 7	88.57	119.53	149. 3	176.42
30		30. 1	59. 7	90. 0	120.53	149.59	177.37

Mediat. ad Lat. Mer. 6. Grad.

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	177.37	205.42	236.2	270. 0	303.37	334.18
1	178.32	206.40	237.28	271. 9	304.42	335.16
2	179.27	207.38	238.35	272.18	305.46	336.14
3	180.22	208.37	239.38	273.26	306.50	337.12
4	181.17	209.36	240.44	274.35	307.54	338.10
5	182.12	210.35	241.50	275.43	308.58	339. 8
6	183. 7	211.34	242.56	276.51	310. 2	340. 5
7	184. 2	212.33	244. 2	278. 0	311. 5	341. 2
8	184.57	213.33	245. 8	279. 8	312. 8	341.59
9	185.52	214.33	246.14	280.16	313.11	342.56
10	186.47	215.33	247.21	281.24	314.14	343.53
11	187.43	216.34	248.28	282.32	315.16	344.49
12	188.39	217.34	249.35	283.40	316.18	345.45
13	189.34	218.35	250.42	284.48	317.20	346.42
14	190.30	219.36	251.49	285.56	318.21	347.38
15	191.26	220.38	252.57	287. 3	319.22	348.34
16	192.22	221.39	254. 4	288.11	320.24	349.30
17	193.18	222.40	255.12	289.18	321.25	350.26
18	194.15	223.42	256.20	290.25	322.26	351.21
19	195.11	224.44	257.28	291.32	323.27	352.17
20	196. 7	225.46	258.36	292.39	324.27	353.13
21	197. 4	226.49	259.44	293.46	325.27	354. 8
22	198. 1	227.52	260.52	294.52	326.27	355. 3
23	198.58	228.55	262. 0	295.58	327.27	355.58
24	199.55	229.58	263. 9	297. 4	328.26	356.53
25	200.52	231. 2	264.17	298.10	329.25	357.48
26	201.50	232. 6	265.25	299.16	330.24	358.43
27	202.48	233.10	266.34	300.22	331.23	359.38
28	203.46	234.14	267.42	301.27	332.22	360.33
29	204.44	235.18	268.51	302.32	333.20	361.28
30	205.42	236.23	270. 0	303.37	334.18	362.23

Tab. Aſcenſion. Rectar. ſeu Cœli

	♈	♉	♊	♋	♌	♍
o	o '	o '	o '	o '	o '	o '
0	2.47	30.22	59.20	90. 0	120.40	149.38
1	3.42	31.18	60.20	91. 2	121.40	150.34
2	4.37	32.14	61.20	92. 4	122.40	151.30
3	5.32	33.11	62.21	93. 6	123.39	152.25
4	6.27	34. 7	63.21	94. 8	124.39	153.21
5	7.22	35. 4	64.21	95.10	125.38	154.17
6	8.17	36. 1	65.22	96.12	126.37	155.12
7	9.12	36.57	66.22	97.14	127.36	156. 8
8	10. 7	37.54	67.23	98.16	128.35	157. 3
9	11. 2	38.51	68.24	99.18	129.33	157.58
10	11.57	39.48	69.25	100.20	130.32	158.54
11	12.52	40.45	70.26	101.22	131.31	159.49
12	13.47	41.43	71.27	102.23	132.29	160.44
13	14.41	42.41	72.28	103.25	133.27	161.39
14	15.36	43.39	73.30	104.27	134.25	162.34
15	16.31	44.37	74.32	105.28	135.23	163.29
16	17.26	45.35	75.33	106.30	136.21	164.24
17	18.21	46 33	76.35	107.32	137.19	165.19
18	19.16	47.31	77.37	108.33	138.17	166.13
19	20.11	48.29	78.38	109.34	139.15	167. 8
20	21. 6	49.28	79.40	110.35	140.12	168. 3
21	22. 2	50.27	80.42	111.36	141. 9	168.58
22	22.57	51.25	81.44	112.37	142. 6	169.53
23	23.52	52.24	82.46	113.38	143. 3	170.48
24	24.48	53.23	83.48	114.38	143.59	171.43
25	25.43	54.22	84.50	115.39	144.56	172.38
26	26.39	55.21	85.52	116.39	145.53	173.33
27	27.35	56.21	86.54	117.39	146.49	174.28
28	28.30	57.20	87.56	118.40	147.46	175.23
29	29.26	58.20	88.58	119.40	148.42	176.18
30	30.22	59.20	90. 0	120.40	149.38	177.13

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	177.13	205.19	236. 8	270. 0	303.52	334.41
1	178. 8	206.17	237.13	271. 9	304.57	335.39
2	179. 3	207.16	238.19	272.18	306. 2	336.37
3	179.58	208.15	239.25	273.26	307. 6	337.35
4	180.53	209.14	240.31	274.36	308.11	338.33
5	181.48	210.13	241.37	275.45	309.15	339.31
6	182.43	211.12	242.44	276.54	310.19	340.28
7	183.38	212.12	243.50	278. 3	311.23	341.25
8	184.33	213.12	244.56	279.12	312.26	342.22
9	185.28	214.12	246. 3	280.21	313.29	343.19
10	186.23	215.12	247.10	281.30	314.32	344.16
11	187.19	216.13	248.18	282.38	315.35	345.13
12	188.14	217.14	249.26	283.46	316.37	346. 9
13	189.10	218.15	250.33	284.55	317.39	347. 6
14	190. 6	219.16	251.41	286. 3	318.41	348. 2
15	191. 2	220.18	252.49	287.11	319.42	348.58
16	191.58	221.19	253.57	288.19	320.44	349.54
17	192.54	222.21	255. 5	289.27	321.45	350.50
18	193.51	223.23	256.14	290.34	322.46	351.45
19	194.47	224.25	257.22	291.42	323.47	352.41
20	195.44	225.28	258.30	292.50	324.48	353.37
21	196.41	226.31	259.39	293.57	325.48	354.32
22	197.38	227.34	260.48	295. 4	326.48	355.27
23	198.35	228.37	261.57	296.10	327.48	356.22
24	199.32	229.41	263. 6	297.16	328.48	357.17
25	200.29	230.45	264.15	298.23	329.47	358.12
26	201.27	231.49	265.24	299.29	330.46	359. 7
27	202.25	232.50	266.33	300.35	331.45	360. 2
28	203.23	233.58	267.42	301.41	332.44	360.57
29	204.21	235. 3	268.51	302.47	333.43	361.52
30	205.19	236. 8	270. 0	303.52	334.41	362.47

	♈	♉	♊	♋	♌	♍
°	° '	° '	° '	° '	° '	° '
0	1.3[illegible]	29.19	58.42	90 0	121.18	150.41
1	2.30	30.16	59.43	91. 4	122.19	151.38
2	3.25	31.13	60.44	92. 8	123.20	152.34
3	4.20	32.10	61.45	93.11	124.21	153.30
4	5.15	33. 7	62.46	94.15	125.22	154.26
5	6.10	34. 4	63.48	95.18	126.22	155.22
6	7. 6	35. 1	64.50	96.21	127.22	156.18
7	8. 1	35.58	65.52	97.25	128.22	157.14
8	8.56	36.56	66.54	98.28	129.22	158.10
9	9.51	37.54	67.56	99.31	130.21	159. 6
10	10.46	38.52	68.58	100.34	131.21	160. 2
11	11.41	39.50	70. 0	101.37	132.20	160.58
12	12.36	40.48	71. 3	102.40	133.19	161.53
13	13.31	41 46	72. 5	103.43	134.18	162.49
14	14.26	42.45	73. 8	104.46	135.17	163.44
15	15.21	43.44	74.11	105.49	136.16	164.39
16	16.16	44.43	75.14	106.52	137.15	165.34
17	17.11	45.42	76.17	107.55	138.14	166.29
18	18. 7	46.41	77.20	108.57	139.12	167.24
19	19. 2	47.40	78.23	110. 0	140.10	168.19
20	19.58	48.39	79.26	111. 2	141. 8	169.14
21	20.54	49.39	80.29	112. 4	142. 6	170. 9
22	21.50	50.38	81.32	113. 6	143. 4	171. 4
23	22.46	51.38	82.35	114. 8	144. 2	171.59
24	23.42	52.38	83.39	115.10	144.59	172.54
25	24.38	53.38	84.42	116.12	145.56	173.50
26	25.34	54.38	85.45	117.14	146.53	174.45
27	26.30	55.39	86.49	118.15	147.50	175.40
28	27.26	56.40	87.52	119.16	148.47	176.35
29	28.22	57.41	88.56	120.17	149.44	177.30
30	29.19	58.42	90. 0	121.18	150.41	178.25

Mediat.ad Latit.Mer.4.Grad.

	♎	♏	♐	♑	♒	♓
°	° '	° '	° '	° '	° '	° '
0	178.25	206.27	236.53	270. 0	303. 7	333.33
1	179.20	207.25	237.57	271. 8	304.11	334.31
2	180.15	208.23	239. 1	272.16	305.15	335.29
3	181.10	209.21	240. 5	273.23	306.18	336.26
4	182. 5	210.19	241.10	274.31	307.22	337.24
5	183. 0	211.18	242.15	275.38	308.25	338.21
6	183.55	212.17	243.20	276.45	309.28	339.18
7	184.50	213.16	244.25	277.52	310.31	340.15
8	185.45	214.15	245.30	278.59	311.33	341.12
9	186.40	215.15	246.36	280. 6	312.35	342. 9
10	187.35	216.15	247.42	281.13	313.37	343. 6
11	188.31	217.15	248.48	282.20	314.39	344. 2
12	189.27	218.15	249.54	283.27	315.40	344.58
13	190.22	219.15	251. 0	284.34	316.41	345.54
14	191.18	220.16	252. 6	285.41	317.42	346.50
15	192.14	221.17	253.13	286.47	318.43	347.46
16	193.10	222.18	254.19	287.54	319.44	348.42
17	194. 6	223.19	255.26	289. 0	320.45	349.38
18	195. 2	224.20	256.33	290. 6	321.45	350.33
19	195.58	225.21	257.40	291.12	322.45	351.29
20	196.54	226.23	258.47	292.18	323.45	352.25
21	197.51	227.25	259.54	293.24	324.45	353.20
22	198.48	228.27	261. 1	294.30	325.45	354.15
23	199.45	229.29	262. 8	295.35	326.44	355.10
24	200.42	230.32	263.15	296.40	327.43	356. 5
25	201.39	231.35	264.22	297.45	328.42	357. 0
26	202.36	232.38	265.29	298.50	329.41	357.55
27	203.34	233.42	266.37	299.55	330.39	358.50
28	204.31	234.45	267.44	300.59	331.37	359.45
29	205.29	235.49	268.52	302. 3	332.35	360.40
30	206.27	236.53	270. 0	303. 7	333.33	361.35

Tab. Aſcenſ. Rect. ſeu Cœli

°	♈	♉	♊	♋	♌	♍
°	° '	° '	° '	° '	° '	° '
0	1.55	29.40	58.55	90. 0	121. 5	150.20
1	2.54	30.37	59.55	91. 3	122. 6	151.16
2	3.49	31.34	60.56	92. 6	123. 6	152.12
3	4.44	32.31	61.57	93. 9	124. 7	153. 8
4	5.39	33.27	62.58	94.12	125. 7	154. 4
5	6.34	34.24	63.59	95.15	126. 7	155. 0
6	7.30	35.21	65. 1	96.18	127. 7	155.56
7	8.25	36.18	66. 2	97.21	128. 7	156.52
8	9.20	37.15	67. 4	98.24	129. 6	157.48
9	10.15	38.13	68. 6	99.26	130. 5	158.43
10	11.10	39.11	69. 7	100.29	131. 4	159.39
11	12. 5	40. 9	70. 9	101.32	132. 3	160.35
12	13. 0	41. 7	71.11	102.34	133. 2	161.30
13	13.55	42. 5	72.13	103.37	134. 1	162.25
14	14.50	43. 3	73.15	104.40	135. 0	163.20
15	15.45	44. 2	74.18	105.42	135.58	164.15
16	16.40	45. 0	75.20	106.45	136.57	165.10
17	17.35	45.59	76.23	107.47	137.55	166. 5
18	18.30	46.58	77.26	108.49	138.53	167. 0
19	19.25	47.57	78.28	109.51	139.51	167.55
20	20.21	48.56	79.31	110.53	140.49	168.50
21	21.17	49.55	80.34	111.54	141.47	169.45
22	22.12	50.54	81.36	112.56	142.45	170.40
23	23. 8	51.53	82.39	113.58	143.42	171.35
24	24. 4	52.53	83.42	114.59	144.39	172.30
25	25. 0	53.53	84.45	116. 1	145.36	173.26
26	25.56	54.53	85.48	117. 2	146.33	174.21
27	26.52	55.53	86.51	118. 3	147.29	175.16
28	27.48	56.54	87.54	119. 4	148.26	176.11
29	28.44	57.54	88.57	120. 5	149.23	177. 6
30	29.40	58.55	90. 0	121. 5	150.20	178. 1

		♎	♏	♐	♑	♒	♓
°		° ′	° ′	° ′	° ′	° ′	° ′
0		178. 1	206. 5	236.37	270. 0	303.22	333.55
1		178.56	207. 3	237.42	271. 8	304.26	334.53
2		179.51	208. 1	238.47	272.16	305.30	335.51
3		180.46	208.59	239.52	273.24	306.34	336.49
4		181.41	209.58	240.57	274.32	307.38	337.47
5		182.36	210.57	242. 2	275.40	308.42	338.44
6		183.31	211.56	243. 8	276.48	309.45	339.41
7		184.26	212.55	244.13	277.56	310.48	340.38
8		185.21	213.54	245.19	279. 4	311.51	341.35
9		186.16	214.54	246.25	280.11	312.53	342.32
10		187.11	215.54	247.31	281.19	313.55	343.29
11		188. 7	216.54	248.38	282.26	314.57	344.25
12		189. 3	217.55	249.45	283.33	315.59	345.21
13		189.58	218.56	250.51	284.41	317. 0	346.18
14		190.54	219.57	251.58	285.48	318. 1	347.14
15		191.50	220.58	253. 5	286.55	319. 2	348.10
16		192.46	221.59	254.12	288. 2	320. 3	349. 6
17		193.42	223. 0	255.19	289. 9	321. 4	350. 2
18		194.39	224. 1	256.27	290.15	322. 5	350.57
19		195.35	225. 3	257.34	291.22	323. 6	351.53
20		196.31	226. 5	258.41	292.29	324. 6	352.49
21		197.28	227. 7	259.49	293.35	325. 6	353.44
22		198.25	228. 9	260.56	294.40	326. 6	354.39
23		199.22	229.12	262. 4	295.47	327. 5	355.34
24		200.19	230.15	263.12	296.53	328. 4	356.29
25		201.16	231.18	264.20	297.58	329. 3	357.24
26		202.13	232.22	265.28	299. 3	330. 2	358.19
27		203.11	233.26	266.36	300. 8	331. 1	359.14
28		204. 9	234.30	267.44	301.13	331.59	360. 9
29		205. 7	235.34	268.52	302.18	332.57	361. 4
30		206. 5	236.38	270. 0	303.22	333.55	361.59

	♈	♉	♊	♋	♌	♍
	° ′	° ′	° ′	° ′	° ′	° ′
	2.23	30. 1	59. 7	90. 0	120.53	149.59
	3.18	30.57	60. 7	91. 3	121.53	150.55
	4.13	31.54	61. 8	92. 6	122.53	151.51
3	5. 8	32.51	62. 9	93. 8	123.53	152.47
4	6. 3	33.47	63. 9	94.11	124.53	153.43
5	6.58	34.44	64.10	95.13	125.52	154.39
6	7.53	35.41	65.11	96.15	126.52	155.34
7	8.48	36.38	66.12	97.18	127.51	156.30
8	9.43	37.35	67.13	98.20	128.50	157.26
9	10.38	38.32	68.15	99.22	129.49	158.21
0	11.33	39.29	69.16	100.25	130.48	159.17
1	12.28	40.27	70.17	101.27	131.47	160.12
2	13.23	41.25	71.19	102.29	132.46	161. 7
3	14.18	42.23	72.21	103.31	133.45	162. 2
4	15.13	43.21	73.23	104.33	134.43	162.57
5	16. 8	44.19	74.25	105.35	135.41	163.52
6	17. 3	45.17	75.27	106.37	136.39	164.47
7	17.58	46.15	76.29	107.39	137.37	165.42
8	18.53	47.14	77.31	108.41	138.35	166.37
9	19.48	48.13	78.33	109.43	139.33	167.32
0	20.43	49.12	79.35	110.44	140.31	168.27
1	21.39	50.11	80.38	111.45	141.28	169.22
2	22.34	51.10	81.40	112.47	142.25	170.17
3	23.30	52. 9	82.42	113.48	143.22	171.12
4	24.26	53. 8	83.45	114.49	144.19	172. 7
5	25.21	54. 8	84.47	115.50	145.16	173. 2
6	2[illegible].17	55. 7	85.49	116.51	146.13	173.57
7	27.13	56. 7	86.52	117.53	147. 9	174.52
8	28. 9	57. 7	87.54	118.52	148 6	175.47
9	29. 5	58. 7	88.57	119.53	149. 3	176.42
0	30. 1	59. 7	90. 0	120.53	149.59	177.37

Mediat. ad Lat. Mer. 6. Grad.

		♎	♏	♐	♑	♒	♓
°		° ′	° ′	° ′	° ′	° ′	° ′
0		177.37	205.42	236.2	270. 0	303.37	334.18
1		178.32	206.40	237.28	271. 9	304.42	335.16
2		179.27	207.38	238.33	272.18	305.46	336.14
3		180.22	208.37	239.38	273.26	306.50	337.12
4		181.17	209.36	240.44	274.35	307.54	338.10
5		182.12	210.35	241.50	275.43	308.58	339. 8
6		183. 7	211.34	242.56	276.51	310. 2	340. 5
7		184. 2	212.33	244. 2	278. 0	311. 5	341. 2
8		184.57	213.33	245. 8	279. 8	312. 8	341.59
9		185.52	214.33	246.14	280.16	313.11	342.56
10		186.47	215.33	247.21	281.24	314.14	343.53
11		187.43	216.34	248.28	282.32	315.16	344.49
12		188.39	217.34	249.35	283.40	316.18	345.45
13		189.34	218.35	250.42	284.48	317.20	346.42
14		190.30	219.36	251.49	285.56	318.21	347.38
15		191.26	220.38	252.57	287. 3	319.22	348.34
16		192.22	221.39	254. 4	288.11	320.24	349.30
17		193.18	222.40	255.12	289.18	321.25	350.26
18		194.15	223.42	256.20	290.25	322.26	351.21
19		195.11	224.44	257.28	291.32	323.27	352.17
20		196. 7	225.46	258.36	292.39	324.27	353.13
21		197. 4	226.49	259.44	293.46	325.27	354. 8
22		198. 1	227.52	260.52	294.52	326.27	355. 3
23		198.58	228.55	262. 0	295.58	327.27	355.58
24		199.55	229.58	263. 9	297. 4	328.26	356.53
25		200.52	231. 2	264.17	298.10	329.25	357.48
26		201.50	232. 6	265.25	299.16	330.24	358.43
27		202.48	233.10	266.34	300.22	331.23	359.38
28		203.46	234.14	267.42	301.27	332.22	360.33
29		204.44	235.18	268.51	302.32	333.20	361.28
30		205.42	236.23	270. 0	303.37	334.18	362.23

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	2.47	30.22	59.20	90. 0	120.40	149.38
1	3.42	31.18	60.20	91. 2	121.40	150.34
2	4.37	32.14	61.20	92. 4	122.40	151.30
3	5.32	33.11	62.21	93. 6	123.39	152.25
4	6.27	34. 7	63.21	94. 8	124.39	153.21
5	7.22	35. 4	64.21	95.10	125.38	154.17
6	8.17	36. 1	65.22	96.12	126.37	155.12
7	9.12	36.57	66.22	97.14	127.36	156. 8
8	10. 7	37.54	67.23	98.16	128.35	157. 3
9	11. 2	38.51	68.24	99.18	129.33	157.58
10	11.57	39.48	69.25	100.20	130.32	158.54
11	12.52	40.45	70.26	101.22	131.31	159.49
12	13.47	41.43	71.27	102.23	132.29	160.44
13	14.41	42.41	72.28	103.25	133.27	161.39
14	15.36	43.39	73.30	104.27	134.25	162.34
15	16.31	44.37	74.32	105.28	135.23	163.29
16	17.26	45.35	75.33	106.30	136.21	164.24
17	18.21	46 33	76.35	107.32	137.19	165.19
18	19.16	47.31	77.37	108.33	138.17	166.13
19	20.11	48.29	78.38	109.34	139.15	167. 8
20	21. 6	49.28	79.40	110.35	140.12	168. 3
21	22. 2	50.27	80.42	111.36	141. 9	168.58
22	22.57	51.25	81.44	112.37	142. 6	169.53
23	23.52	52.24	82.46	113.38	143. 3	170.48
24	24.48	53.23	83.48	114.38	143.59	171.43
25	25.43	54.22	84.50	115.39	144.56	172.38
26	26.39	55.21	85.52	116.39	145.53	173.33
27	27.35	56.21	86.54	117.39	146.49	174.28
28	28.30	57.20	87.56	118.40	147.46	175.23
29	29.26	58.20	88.58	119.40	148.42	176.18
30	30.22	59.20	90. 0	120.40	149.38	177.13

Mediat. ad Latitud. Merid. 7. Grad.

	♎	♏	♐	♑	♒	♓
°	° '	° '	° '	° '	° '	° '
0	177.13	205.19	236. 8	270. 0	303.52	334.41
1	178. 8	206.17	237.13	271. 9	304.57	335.39
2	179. 3	207.16	238.19	272.18	306. 2	336.37
3	179.58	208.15	239.25	273.26	307. 6	337.35
4	180.53	209.14	240.31	274.36	308.11	338.33
5	181.48	210.13	241.37	275.45	309.15	339.31
6	182.43	211.12	242.44	276.54	310.19	340.28
7	183.38	212.12	243.50	278. 3	311.23	341.25
8	184.33	213.12	244.56	279.12	312.26	342.22
9	185.28	214.12	246. 3	280.21	313.29	343.19
10	186.23	215.12	247.10	281.30	314.32	344.16
11	187.19	216.13	248.18	282.38	315.35	345.13
12	188.14	217.14	249.26	283.46	316.37	346. 9
13	189.10	218.15	250.33	284.55	317.39	347. 6
14	190. 6	219.16	251.41	286. 3	318.41	348. 2
15	191. 2	220.18	252.49	287.11	319.42	348.58
16	191.58	221.19	253.57	288.19	320.44	349.54
17	192.54	222.21	255. 5	289.27	321.45	350.50
18	193.51	223.23	256.14	290.34	322.46	351.45
19	194.47	224.25	257.22	291.42	323.47	352.41
20	195.44	225.28	258.30	292.50	324.48	353.37
21	196.41	226.31	259.39	293.57	325.48	354.32
22	197.38	227.34	260.48	295. 4	326.48	355.27
23	198.35	228.37	261.57	296.10	327.48	356.22
24	199.32	229.41	263. 6	297.16	328.48	357.17
25	200.29	230.45	264.15	298.23	329.47	358.12
26	201.27	231.49	265.24	299.29	330.46	359. 7
27	202.25	232.50	266.33	300.35	331.45	360. 2
28	203.23	233.58	267.42	301.41	332.44	360.57
29	204.21	235. 3	268.51	302.47	333.43	361.52
30	205.19	236. 8	270. 0	303.52	334.41	362.47

Tab. Aſcenſionum. Rect. ſeu Cœli

°	♈ ° ′	♉ ° ′	♊ ° ′	♋ ° ′	♌ ° ′	♍ ° ′
0	3. 12	30.43	59.32	90. 0	120.28	149.17
1	4. 6	31.39	60.32	91. 2	121.28	150.13
2	5. 1	32.35	61.32	92. 4	122.27	151. 9
3	5. 56	33.31	62.32	93. 5	123.26	152. 4
4	6. 50	34.27	63.32	94. 7	124.25	153. 0
5	7. 45	35.23	64.32	95. 9	125.24	153.55
6	8. 40	36.20	65.32	96.10	126.23	154.50
7	9. 35	37.16	66.32	97.12	127.22	155.46
8	10.30	38.13	67.33	98.13	128.20	156.41
9	11 25	39.10	68.33	99.14	129.18	157.36
10	12.19	40. 7	69.33	100.16	130.17	158.31
11	13.14	41. 4	70.34	101.17	131.15	159.26
12	14. 9	42. 1	71.35	102.18	132.13	160.21
13	15. 4	42.58	72.36	103.20	133.11	161.16
14	15.59	43.56	73.37	104.21	134. 9	162.11
15	16.54	44.54	74.38	105.22	135. 6	163. 6
16	17.49	45.51	75.39	106.23	136. 4	164. 1
17	18.44	46.49	76.40	107.24	137. 2	164.56
18	19.39	47.47	77.42	108.25	137.59	165.51
19	20.34	48.45	78.43	109.26	138.56	166.46
20	21.29	49.43	79.44	110.27	139.53	167.41
21	22.24	50.42	80.46	111.27	140.50	168.35
22	23.19	51.40	81.47	112.27	141.47	169.30
23	24.14	52.38	82.48	113.28	142.44	170.25
24	25.10	53.37	83.50	114.28	143.40	171.20
25	26. 5	54.36	84.51	115.28	144.37	172.15
26	27. 0	55.35	85.53	116.28	145.33	173.10
27	27.56	56.34	86.55	117.28	146.29	174. 4
28	28.51	57.33	87.56	118.28	147.25	174.59
29	29.47	58.32	88.58	119.28	148.21	175.54
30	30.43	59.32	90. 0	120.28	149.17	176.48

		♎	♏	♐	♑	♒	♓
°		° '	° '	° '	° '	° '	° '
0		176.48	204.56	235.53	270. 0	304. 7	335. 4
1		177.43	205.54	236.59	271.10	305.12	336. 3
2		178.38	206.53	238. 5	272.20	306.17	337. 1
3		179.34	207.52	239.11	273.29	307.22	337.59
4		180.29	208.51	240.17	274.39	308.27	338.57
5		181.24	209.50	241.24	275.49	309.32	339.55
6		182.19	210.50	242.31	276.58	310.36	340.52
7		183.14	211.50	243.38	278. 8	311.40	341.49
8		184. 9	212.50	244.45	279.17	312.44	342.46
9		185. 4	213.51	245.52	280.26	313.47	343.43
10		185.59	214.51	247. 0	281.35	314.50	344.40
11		186.55	215.52	248. 8	282.44	315.53	345.37
12		187.51	216.53	249.16	283.53	316.56	346.33
13		188.46	217 54	250.24	285. 2	317.58	347.30
14		189.42	218.56	251.32	286.11	319. 0	348.26
15		190.38	219.58	252.41	287.19	320. 2	349.22
16		191.34	221. 0	253.49	288.28	321. 4	350.18
17		192.30	222. 2	254.58	289.36	322. 6	351.14
18		193.27	223. 4	256. 7	290.44	323. 7	352. 9
19		194.23	224. 7	257.16	291.52	324. 8	353. 5
20		195.20	225.10	258.25	293. 0	325. 9	354. 1
21		196.17	226.13	259.34	294. 8	326. 9	354.56
22		197.14	227.16	260.43	295.15	327.10	355.51
23		198.11	228.20	261.52	296.22	328.10	356.46
24		199. 8	229.24	263. 2	297.29	329.10	357.41
25		200. 5	230.28	264.11	298.36	330.10	358.36
26		201. 3	231.33	265.21	299.43	331. 9	359.31
27		202. 1	232.38	266.31	300.49	332. 8	360.26
28		202.59	233.43	267.40	301.55	333. 7	361.22
29		203.57	234.48	268.50	303. 1	334. 6	362.17
30		204.56	235.53	270. 0	304. 7	335. 4	363.12

Tab. Differentiarum Aſcenſionalium.

0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8
1	0. 1	0. 2	0. 3	0. 4	0. 5	0. 6	0. 7	0. 8
2	0. 2	0. 4	0. 6	0. 8	0.10	0.13	0.15	0.17
3	0. 3	0. 6	0. 9	0.13	0.16	0.19	0.22	0.25
4	0. 4	0. 8	0.13	0.17	0.21	0.25	0.30	0.34
5	0. 5	0.10	0.16	0.21	0.26	0.32	0.37	0.42
6	0. 6	0.13	0.19	0.25	0.32	0.38	0.44	0.51
7	0. 7	0.15	0.22	0.30	0.37	0.44	0.52	0.59
8	0. 8	0.17	0.25	0.34	0.42	0.51	0.59	1. 8
9	0. 9	0.19	0.29	0.38	0.48	0.57	1. 7	1.16
10	0.11	0.21	0.32	0.42	0.53	1. 4	1.14	1.25
11	0.12	0.23	0.35	0.47	0.58	1.10	1.22	1.34
12	0.13	0.25	0.38	0.51	1. 4	1.17	1.30	1.43
13	0.14	0.28	0.42	0.56	1. 9	1.23	1.37	1.52
14	0.15	0.30	0.45	1. 0	1.15	1.30	1.45	2. 0
15	0.16	0.32	0.48	1. 4	1.21	1.37	1.53	2.10
16	0.17	0.34	0.52	1. 9	1.26	1.44	2. 1	2.19
17	0.18	0.37	0.55	1.14	1.32	1.50	2. 9	2.28
18	0.19	0.39	0.59	1.18	1.38	1.57	2.17	2.37
19	0.21	0.41	1. 2	1.23	1.44	2. 4	2.25	2.46
20	0.22	0.44	1. 6	1.27	1.49	2.12	2.34	2.56
21	0.23	0.46	1. 9	1.32	1.55	2.19	2.42	3. 6
22	0.24	0.49	1.13	1.37	2. 2	2.26	2.51	3.15
23	0.25	0.51	1.17	1.42	2. 8	2.33	2.59	3.25
24	0.27	0.53	1.20	1.47	2.14	2.41	3. 8	3.35
25	0.28	0.56	1.24	1.52	2.20	2.49	3.17	3.45
26	0.29	0.59	1.28	1.57	2.27	2.56	3.26	3.56
27	0.31	1. 1	1.32	2. 3	2.33	3. 4	3.35	4. 6
28	0.32	1. 4	1.36	2. 8	2.40	3.12	3.45	4.17
29	0.33	1. 7	1.40	2.13	2.47	3.20	3.54	4.28
30	0.35	1. 9	1.44	2.19	2.54	3.29	4. 4	4.39
31	0.36	1.12	1.48	2.24	3. 1	3.37	4.14	4.51
32	0.37	1.15	1.53	2.30	3. 8	3.46	4.24	5. 2

adElevat. poli ſuperius Decl. in margin e.

0	0 9	0 10	0 11	0 12	0 13	0 14	0 15
1	0. 9	0.11	0.12	0.13	0.14	0.15	0.16
2	0.19	0.21	0.23	0.25	0.28	0.30	0.32
3	0.29	0.32	0.35	0.38	0.42	0.45	0.48
4	0.33	0.42	0.47	0.51	0.56	1. 0	1. 4
5	0.48	0.53	0.58	1. 4	1. 9	1.15	1.21
6	0.57	1. 4	1.10	1.17	1.23	1.30	1.37
7	1. 7	1.14	1.22	1.30	1.37	1.45	1.53
8	1.16	1.25	1.34	1.43	1.52	2. 0	2. 9
9	1.26	1.36	1.46	1.56	2. 6	2.16	2.26
10	1.36	1.47	1.58	2. 9	2.20	2.31	2.42
11	1.46	1.58	2.10	2.22	2.34	2.47	2.59
12	1.56	2. 9	2.22	2.35	2.49	3. 2	3.16
13	2. 6	2.20	2.34	2.49	3. 3	3.18	3.33
14	2.16	2.31	2.47	3. 2	3.18	3.34	3.50
15	2.26	2.42	2.59	3.16	3.33	3.50	4. 7
16	2.36	2.54	3.12	3.30	3.48	4. 6	4.24
17	2.47	3. 5	3.24	3.44	4. 3	4.22	4.42
18	2.57	3.17	3.37	3.58	4.18	4.39	5. 0
19	3. 8	3.29	3.50	4.12	4.34	4.55	5.18
20	3.18	3.41	4. 3	4.26	4.49	5.12	5.36
21	3.29	3.54	4.17	4.41	5. 5	5.30	5.54
22	3.40	4. 5	4.30	4.56	5.21	5.47	6.13
23	3.51	4.18	4.44	5.11	5.37	6. 7	6.32
24	4. 2	4.30	4.58	5.26	5.54	6.22	6.51
25	4.14	4.43	5.12	5.41	6.11	6.41	7.11
26	4.26	4.56	5.26	5.57	6.28	6.59	7.31
27	4.38	5. 9	5.41	6.13	6.45	7.18	7.51
28	4.50	5.23	5.56	6.29	7. 3	7.37	8.11
29	5. 2	5.37	6.11	6.46	7.21	7.57	8.32
30	5.15	5.51	6.27	7. 3	7.40	8.17	8.54
31	5.28	6. 5	6.43	7.20	7.58	8.37	9.16
32	5.41	6.20	6.59	7.38	8.18	8.58	9.38

Tab. Differentiarum Aſcenſionalium.

°	° 16	° 17	° 18	° 19	° 20	° 21	° 22	° 23
1	0.17	0.18	0.19	0.21	0.22	0.23	0.24	0.25
2	0.34	0.37	0.39	0.41	0.44	0.46	0.49	0.51
3	0.52	0.55	0.59	1. 2	1. 6	1. 9	1.13	1.17
4	1. 9	1.14	1.18	1.23	1.27	1.32	1.37	1.42
5	1.26	1.32	1.38	1.44	1.49	1.55	2. 2	2. 8
6	1.44	1.50	1.57	2. 4	2.12	2.19	2.26	2.33
7	2. 1	2. 9	2.17	2.25	2.34	2.42	2.51	2.59
8	2.19	2.28	2.37	2.46	2.56	3. 6	3.15	3.25
9	2.36	2.47	2.57	3. 8	3.18	3.29	3.40	3.51
10	2.54	3. 5	3.17	3.29	3.41	3.53	4. 5	4.18
11	3.12	3.24	3.37	3.50	4. 3	4.17	4.30	4.44
12	3.30	3.44	3.58	4.12	4.26	4.41	4.56	5.11
13	3.48	4. 3	4.18	4.34	4.49	5. 5	5.21	5.38
14	4. 6	4.22	4.39	4.55	5.12	5.30	5.47	6. 5
15	4.24	4.42	5. 0	5.18	5.36	5.54	6.13	6.32
16	4.43	5. 2	5.21	5.40	5.59	6.19	6.39	6.59
17	5. 2	5.22	5.42	6. 2	6.23	6.44	7. 6	7.27
18	5.21	5.42	6. 4	6.25	6.47	7.10	7.33	7.56
19	5.40	6. 3	6.25	6.49	7.12	7.36	8. 0	8.24
20	5.59	6.23	6.47	7.12	7.37	8. 2	8.27	8.53
21	6.19	6.44	7.10	7.36	8. 2	8.28	8.55	9.23
22	6.39	7. 6	7.33	8. 0	8.27	8.55	9.24	9.53
23	6.59	7.27	7.56	8.24	8.53	9.22	9.53	10.23
24	7.20	7.49	8.19	8.49	9.19	9.50	10.22	10.54
25	7.41	8.12	8.43	9.14	9.46	10.19	10.52	11.25
26	8. 2	8.35	9. 7	9.40	10.14	10.47	11.22	11.57
27	8.24	8.58	9.32	10. 6	10.41	11.17	11.53	12.30
28	8.46	9.21	9.57	10.33	11. 9	11.47	12.24	13. 3
29	9. 9	9.45	10.23	11. 0	11.38	12.17	12.56	13.37
30	9.32	10.10	10.49	11.28	12. 8	12.48	13.29	14.11
31	9.55	10.35	11.16	11.56	12.38	13.20	14. 3	14.47
32	10.19	11. 1	11.43	12.25	13. 9	13.53	14.37	15.23

0	0 24	0 25	0 26	0 27	0 28	0 29	0 30
1	0.27	0.28	0.29	0.31	0.32	0.33	0.35
2	0.53	0.56	0.59	1. 1	1. 4	1. 7	1. [illegible]
3	1.20	1.24	1.28	1.32	1.36	1.40	1.44
4	1.47	1.52	1.57	2. 3	2. 8	2.13	2.19
5	2.14	2.20	2.27	2.33	2.40	2.47	2.54
6	2.41	2.49	2.56	3. 4	3.12	3.20	3.29
7	3. 8	3.17	3.26	3.35	3.45	3.54	4. 4
8	3.35	3.45	3.56	4. 6	4.17	4.28	4.39
9	4. 3	4.14	4.26	4.38	4.50	5. 2	5.15
10	4.30	4.43	4.56	5. 9	5.23	5.37	5.51
11	4.58	5.12	5.26	5.41	5.56	6.11	6.27
12	5.26	5.41	5.57	6.13	6.29	6.46	7. 3
13	5.54	6.11	6.28	6.45	7. 3	7.21	7.40
14	6.22	6.41	6.59	7.18	7.37	7.56	8.17
15	6.51	7.11	7.31	7.51	8.11	8.32	8.54
16	7.20	7.41	8. 3	8.24	8.46	9. 8	9.31
17	7.49	8.12	8.35	8.58	9.21	9.45	10.10
18	8.19	8.43	9. 7	9.32	9.57	10.23	10.49
19	8.49	9.14	9.40	10. 6	10.33	11. 0	11.28
20	9.19	9.46	10.13	10.41	11. 9	11.38	12. 8
21	9.50	10.19	10.47	11.17	11.46	12.17	12.48
22	10.22	10.52	11.22	11.53	12.24	12.56	13.29
23	10.54	11.25	11.57	12.29	13. 3	13.36	14.11
24	11.26	11.59	12.33	13. 7	13.42	14.17	14.54
25	11.59	12.34	13. 9	13.45	14.21	14.59	15.37
26	12.33	13. 9	13.46	14.23	15. 2	15.41	16.21
27	13. 7	13.45	14.23	15. 3	15.43	16.24	17. [illegible]
28	13.42	14.21	15. 2	15.43	16.25	17. 8	17.5[illegible]
29	14.17	14.59	15.41	16.24	17. 8	17.54	18.4[illegible]
30	14.54	15.37	16.21	17. 6	17.53	18.40	19.2[illegible]
31	15.31	16.16	17. 2	17.50	18.38	19.27	20.1[illegible]
32	16. 9	16.56	17.45	18.34	19.24	20.16	21.[illegible]

♈	o 31 /	o 32 /	o 33 /	o 34 /	o 35 /	o 36 /	o 37 /	o 38 /
1	0.36	0.37	0.39	0.40	0.42	0.44	0.45	0.47
2	1.12	1.15	1.18	1.21	1.24	1.27	1.31	1.34
3	1.48	1.53	1.57	2. 2	2. 6	2.11	2.16	2.21
4	2.24	2.30	2.36	2.42	2.48	2.55	3. 1	3. 8
5	3. 1	3. 8	3.15	3.23	3.31	3.39	3.47	3.55
6	3.37	3.46	3.55	4. 4	4.13	4.23	4.33	4.43
7	4.14	4.24	4.34	4.45	4.56	5. 7	5.19	5.30
8	4.51	5. 2	5.14	5.26	5.39	5.52	6. 5	6.18
9	5.28	5.41	5.54	6. 8	6.22	6.36	6.51	7. 6
10	6. 5	6.20	6.35	6.50	7. 6	7.22	7.38	7.55
11	6.42	6.59	7.15	7.32	7.49	8. 7	8.25	8.44
12	7.20	7.38	7.56	8.15	8.34	8.53	9.13	9.34
13	7.58	8.18	8.38	8.58	9.18	9.39	10. 1	10.24
14	8.37	8.58	9.19	9.41	10. 3	10.26	10.50	11.14
15	9.16	9.38	10. 1	10.25	10.49	11.14	11.39	12. 5
16	9.55	10.19	10.44	11. 9	11.35	12. 2	12.29	12.57
17	10.35	11. 1	11.27	11.54	12.22	12.50	13.19	13.49
18	11.16	11.43	12.11	12.40	13. 9	13.39	14.10	14.42
19	11.57	12.25	12.55	13.26	13.57	14.29	15. 2	15.36
20	12.38	13. 9	13.40	14.13	14.46	15.20	15.55	16.31
21	13.20	13.53	14.26	15. 0	15.39	16.12	16.49	17.27
22	14. 3	14.37	15.13	15.49	16.27	17. 5	17.44	18.24
23	14.47	15.23	16. 0	16.38	17.18	17.58	18.39	19.22
24	15.31	16. 9	16.48	17.29	18.10	18.52	19.36	20.21
25	16.16	16.56	17.38	18.20	19. 3	19.48	20.34	21.22
26	17. 3	17.45	18.28	19.12	19.58	20.45	21.24	22.24
27	17.50	18.34	19.19	20. 6	20.54	21.44	22.35	23.28
28	18.38	19.24	20.12	21. 1	21.51	22.43	23.36	24.33
29	19.27	20.16	21. 6	21.57	22.50	23.45	24.41	25.40
30	20.18	21. 9	22. 1	22.55	23.51	24.48	25.47	26.49
31	21.10	22. 3	22.58	23.55	24.53	25.53	26.55	28. 0
32	22. 3	22.59	23.56	24.56	25.57	27. 0	28. 5	29.13

Tab. Differentiarum Aſcenſionalium.

°0		0 39	0 40	0 41	0 42	0 43	0 44	0 45
1		0.49	0.50	0.52	0.54	0.56	0.58	1. 0
2		1.37	1.41	1.44	1.48	1.52	1.56	2. 0
3		2.26	2.31	2.37	2.42	2.48	2.54	3. 0
4		3.15	3.22	3.29	3.37	3.44	3.52	4. 1
5		4. 4	4.13	4.22	4.31	4.41	4.51	5. 1
6		4.52	5. 4	5.15	5.26	5.37	5.50	6. 2
7		5.42	5.55	6. 8	6.21	6.34	6.49	7. 3
8		6.32	6.46	7. 1	7.16	7.32	7.48	8. 5
9		7.22	7.38	7.55	8.12	8.30	8.48	9. 7
10		8.13	8.30	8.49	9. 8	9.28	9.48	10. 9
11		9. 3	9.23	9.44	10. 5	10.27	10.49	11.12
12		9.55	10.16	10.39	11. 2	11.26	11.51	12.16
13		10.46	11.10	11.35	12. 0	12.26	12.53	13.21
14		11.39	12. 5	12.31	12.58	13.27	13.56	14.26
15		12.32	13. 0	13.28	13.58	14.28	15. 0	15.32
16		13.26	13.55	14.26	14.58	15.31	16. 5	16.40
17		14.20	14.52	15.25	15.59	16.34	17.10	17.48
18		15.15	15.49	16.24	17. 1	17.38	18.17	18.58
19		16.11	16.48	17.25	18. 4	18.44	19.25	20. 9
20		17. 8	17.47	18.27	19. 8	19.50	20.35	21.22
21		18. 7	18.47	19.30	20.13	20.59	21.46	22.35
22		19. 6	19.49	20.34	21.20	22. 8	22.58	23.50
23		20. 6	20.52	21.39	22.28	23.19	24.12	25. 7
24		21. 8	21.56	22.46	23.38	24.32	25.28	26.26
25		22.11	23. 2	23.55	24.50	25.47	26.46	27.48
26		23.16	24.10	25. 5	26. 3	27. 3	28. 6	29.12
27		24.22	25.19	26.17	27.18	28.22	29.29	30.38
28		25.30	26.30	27.31	28.36	29.44	30.54	32. 7
29		26.40	27.43	28.48	29.57	31. 8	32.22	33.40
30		27.52	28.59	30. 7	31.19	32.35	33.53	35.16
31		29. 7	30.17	31.29	32.45	34. 5	35.28	36.56
32		30.24	31.38	32.54	34.14	35.38	37. 7	38.40

Tab. Differentiarum Aſcenſionalium

0	0 46	0 47	0 48	0 49	0 50	0 51	51.52	0 52
1	1. 2	1. 4	1. 7	1. 9	1.12	1.14	1.16	1.17
2	2. 4	2. 9	2.13	2.18	2.23	2.28	2.33	2.34
3	3. 7	3.13	3.20	3.27	3.35	3.43	3.50	3.51
4	4. 9	4.18	4.27	4.37	4.47	4.57	5. 7	5. 8
5	5.12	5.23	5.35	5.47	5.59	6.12	6.24	6.26
6	6.15	6.28	6.42	6.57	7.12	7.27	7.42	7.44
7	7.18	7.34	7.50	8. 7	8.25	8.43	9. 0	9. 2
8	8.22	8.40	8.59	9.18	9.38	10. 0	10.19	10.22
9	9.26	9.47	10. 8	10.30	10.53	11.17	11.38	11.42
10	10.31	10.54	11.18	11.42	12. 8	12.35	12.59	13. 3
11	11.37	12. 2	12.28	12.55	13.24	13.53	14.20	14.24
12	12.43	13.11	13.39	14. 9	14.40	15.13	15.42	15.47
13	13.50	14.20	14.51	15.24	15.58	16.34	17. 6	17.11
14	14.58	15.30	16. 5	16.40	17.17	17.56	18.31	18.37
15	16. 7	16.42	17.19	17.57	18.37	19.19	19.57	20. 4
16	17.16	17.54	18.34	19.16	19.59	20.44	21.25	21.32
17	18.27	19. 8	19.51	20.36	21.22	22.11	22.55	23. 2
18	19.40	20.23	21. 9	21.57	22.47	23.39	24.27	24.34
19	20.53	21.40	22.29	23.20	24.14	25.10	26. 1	26. 9
20	22. 8	22.58	23.51	24.45	25.43	26.43	27.37	27.46
21	23.25	24.18	25.14	26.12	27.14	28.18	29.16	29.26
22	24.44	25.40	26.40	27.42	28.48	29.56	30.58	31. 8
23	26. 5	27. 5	28. 8	29.14	30.24	31.37	32.44	32.54
24	27.27	28.31	29.38	30.48	32. 3	33.21	34.33	34.44
25	28.52	30. 0	31.12	32.26	33.46	35.10	36.26	36.39
26	30.20	31.32	32.48	34. 8	35.32	37. 3	38.25	38.38
27	31.51	33. 7	34.28	35.53	37.23	39. 0	40.28	40.42
28	33.25	34.46	36.12	37.42	39.19	41. 2	42.38	42.53
29	35. 2	36.28	38. 0	39.37	41.21	43.12	44.55	45.12
30	36.43	38.15	39.53	41.37	43.29	45.29	47.21	47.39
31	38.29	40. 7	41.52	43.44	45.44	47.54	49.56	50.16
32	40.19	42. 4	43.57	45.57	48. 8	50.30	52.45	53. 7

0	° 53	° 54	° 55	° 56	° 57	° 58	° 59	° 60
1	1.20	1.23	1.26	1.29	1.32	1.36	1.40	1.4
2	2.39	2.45	2.51	2.58	3. 5	3.12	3.20	2.2
3	3.59	4. 8	4.17	4.27	4.38	4.49	5. 0	5.1
4	5.19	5.31	5.44	5.57	6.11	6.25	6.41	6.5
5	6.40	6.55	7.11	7.27	7.44	8. 3	8.22	8.4
6	8. 1	8.19	8.38	8.58	9.19	9.41	10. 4	10.2
7	9.23	9.44	10. 6	10.29	10.54	11.20	11.47	12.1
8	10.45	11. 9	11.35	12. 1	12.30	13. 0	13.32	14.
9	12. 8	12.35	13. 4	13.35	14. 7	14.41	15.17	15.5
10	13.32	14. 3	14.35	15. 9	15.45	16.23	17. 4	17.4
11	14.57	15.31	16. 7	16.45	17.25	18. 8	18.53	19.41
12	16.23	17. 1	17.40	18.22	19. 6	19.53	20.43	21.3
13	17.50	18.32	19.15	20. 1	20.50	21.41	22.36	23.3
14	19.19	20. 4	20.52	21.42	22.35	23.31	24.31	25.3
15	20.50	21.38	22.30	23.24	24.22	25.23	26.29	27.3
16	22.22	23.15	24.10	25. 9	26.12	27.19	28.30	29.4
17	23.56	24.53	25.53	26.57	28. 5	29.18	30.35	31.5
18	25.33	26.34	27.39	28.48	30. 1	31.20	32.44	34.1
19	27.11	28.17	29.27	30.41	32. 1	33.26	34.58	36.3
20	28.53	30. 4	31.19	32.39	34. 5	35.37	37.17	39.
21	30.37	31.54	33.15	34.41	36.14	37.54	39.42	41.4
22	32.25	33.47	35.14	36.48	38.28	40.17	42.15	44.2
23	34.17	35.45	37.19	39. 0	40.49	42.47	44.57	47.2
24	36.13	37.48	39.29	41.18	43.17	45.26	47.49	50.2
25	38.14	39.56	41.45	43.44	45.54	48.16	50.54	53.5
26	40.20	42.10	44. 9	46.18	48.41	51.19	54.16	57.3
27	42.33	44.32	46.41	49. 4	51.41	54.38	58. 0	61.5
28	44.53	47. 2	49.24	52. 1	54.58	58.19	62.14	67.
29	47.21	49.44	52.20	55.16	58.36	62.30	67.18	73.4
30	50. 1	52.37	55.32	58.52	62.45	67.31	73.55	90.
31	52.53	55.48	59. 6	62.58	67.42	74. 4	90. 0	90.
32	56. 1	59.19	63.10	67.53	74.12	90. 0	90. 0	90.

Tab. Aſcenſion. obliqvarumEclipticæ.

		♈	♉	♊	♋	♌	♍
°		° ′	° ′	° ′	° ′	° ′	° ′
0		0. 0	27.42	57.26	89.34	121.50	151.54
1		0.54	28.39	58.28	90.40	122.53	152.52
2		1.49	29.36	59.31	91.45	123.55	153.49
3		2.43	30.33	60.34	92.51	124.57	154.47
4		3.38	31.30	61.37	93.56	125.59	155.44
5		4.33	32.28	62.40	95. 1	127. 1	156.41
6		5.27	33.26	63.43	96. 7	128. 3	157.38
7		6.22	34.24	64.46	97.12	129. 4	158.35
8		7.17	35.22	65.50	98.17	130. 6	159.32
9		8.12	36.20	66.53	99.22	131. 7	160.29
10		9. 7	37.19	67.57	100.27	132. 8	161.25
11		10. 2	38.17	69. 1	101.32	133. 9	162.22
12		10.57	39.16	70. 5	102.37	134.10	163.18
13		11.52	40.15	71. 9	103.42	135.10	164.14
14		12.47	41 14	72.13	104.47	136.11	165.10
15		13.42	42.13	73.18	105.52	137.11	166. 6
16		14.37	43.13	74.22	106.57	138.11	167. 2
17		15.32	44.13	75.27	108. 2	139.11	167.58
18		16.28	45.13	76.31	109. 6	140.10	168.54
19		17.23	46.13	77.36	110.11	141.10	169.50
20		18.19	47.14	78.41	111.15	142. 9	170.45
21		19.15	48.14	79.46	112.19	143. 8	171.41
22		20.11	49.15	80.51	113.23	144. 7	172.37
23		21. 7	50.15	81.56	114.27	145. 6	173.32
24		22. 3	51.16	83. 1	115.31	146. 5	174.28
25		22.59	52.17	84. 7	116.34	147. 4	175.23
26		23.55	53.18	85.12	117.38	148. 2	176.19
27		24.52	54.20	86.17	118.41	149. 0	177.14
28		25.48	55.22	87.23	119.44	149.58	178.10
29		26.45	56.24	88.28	120.47	150.56	179. 5
30		27.42	57.26	89.34	121.50	151.54	180. 0

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	208. 6	238.10	270.26	302.34	332.18
1	180.55	209. 4	239.13	271.32	303.36	333.15
2	181.50	210. 2	240.16	272.37	304.38	334.12
3	182.46	211. 0	241.19	273.43	305.40	335. 8
4	183.41	211.58	242.22	274.48	306.42	336. 5
5	184.37	212.56	243.26	275.53	307.43	337. 1
6	185.32	213.55	244.29	276.59	308.44	337.57
7	186.28	214.54	245.33	278. 4	309.45	338.53
8	187.23	215.53	246.37	279. 9	310.45	339.49
9	188.19	216.52	247.41	280.14	311.46	340.45
10	189.15	217.51	248.45	281.19	312.46	341.41
11	190.10	218.50	249.49	282.24	313.47	342.37
12	191. 6	219.50	250.54	283.29	314.47	343.32
13	192. 2	220.49	251.58	284.33	315.47	344.28
14	192.58	221.49	253. 3	285.38	316.47	345.23
15	193.54	222.49	254. 8	286.42	317.47	346.18
16	194.50	223.49	255.13	287.47	318.46	347.13
17	195.46	224.50	256.18	288.51	319.45	348. 8
18	196.42	225.50	257.23	289.55	320.44	349. 3
19	197.38	226.51	258.28	290.59	321.43	349.58
20	198.35	227.52	259.33	292. 3	322.41	350.53
21	199.31	228.53	260.38	293. 7	323.40	351.48
22	200.28	229.54	261.43	294.10	324.38	352.43
23	201.25	230.56	262.48	295.14	325.36	353.38
24	202.22	231.57	263.53	296.17	326.34	354.33
25	203.19	232.59	264.59	297.20	327.32	355.27
26	204.16	234. 1	266. 4	298.23	328.30	356.22
27	205.13	235. 3	267. 9	299.26	329.27	357.17
28	206.11	236. 5	268.15	300.29	330.24	358.11
29	207. 8	237. 7	269.20	301.32	331.21	359. 6
30	208. 6	238.10	270.26	302.34	332.18	360. 0

Tab. Aſcenſion. obliqvarum

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	27.30	57. 4	89. 8	121.28	151.42
1	0.54	28.26	58. 6	90.14	122.31	152.40
2	1.48	29.23	59. 8	91.19	123.33	153.38
3	2.42	30.20	60.11	92.25	124.36	154.35
4	3.36	31.17	61.13	93.30	125.38	155.33
5	4.31	32.14	62.16	94.35	126.40	156.30
6	5.25	33.11	63.19	95.41	127.42	157.28
7	6.19	34. 9	64.22	96.46	128.44	158.25
8	7.14	35. 7	65.25	97.52	129.45	159.22
9	8. 8	36. 5	66.28	98.57	130.47	160.19
10	9. 3	37. 3	67.32	100. 2	131.48	161.16
11	9.57	38. 1	68.36	101. 7	132.50	162.13
12	10.52	39. 0	69.40	102.12	133.51	163.10
13	11.46	39.58	70.44	103.17	134.52	164. 7
14	12.41	40.57	71.48	104.22	135.53	165. 4
15	13.36	41.56	72.53	105.27	136.54	166. 0
16	14.30	42.55	73.57	106.32	137.54	166.57
17	15.25	43.55	75. 2	107.37	138.54	167.53
18	16.20	44.54	76. 6	108.41	139.54	168.49
19	17.15	45.54	77.11	109.46	140.54	169.45
20	18.10	46.54	78.16	110.50	141.53	170.41
21	19. 5	47.54	79.21	111.54	142.53	171.37
22	20. 1	48.54	80.26	112.58	143.52	172.33
23	20.56	49.55	81.31	114. 2	144.52	173.29
24	21.52	50.55	82.36	115. 6	145.51	174.25
25	22.48	51.56	83.41	116.10	146.50	175.21
26	23.44	52.57	84.46	117.14	147.49	176.17
27	24.40	53.59	85.51	118.18	148.47	177.13
28	25.37	55. 0	86.57	119.21	149.46	178. 9
29	26.33	56. 2	88. 2	120.25	150.44	179. 5
30	27.30	57. 4	89. 8	121.28	151.42	180. 0

ad Latitudinem. 2. Graduum.

		♎	♏	♐	♑	♒	♓
°		° ′	° ′	° ′	° ′	° ′	° ′
0		180. 0	208.18	238.32	270.52	302.56	332.30
1		180.55	209.16	239.35	271.58	303.58	333.27
2		181.51	210.14	240.39	273. 3	305. 0	334.23
3		182.47	211.13	241.42	274. 9	306. 1	335.20
4		183.43	212.11	242.46	275.14	307. 3	336.16
5		184.39	213.10	243.50	276.19	308. 4	337.12
6		185.35	214. 9	244.54	277.24	309. 5	338. 8
7		186.31	215. 8	245.58	278.29	310. 5	339. 4
8		187.27	216. 8	247. 2	279.34	311. 6	339.59
9		188.23	217. 7	248. 6	280.39	312. 6	340.55
10		189.19	218. 7	249.10	281.44	313. 6	341.50
11		190.15	219. 6	250.14	282.49	314. 6	342.45
12		191.11	220. 6	251.19	283.54	315. 6	343.40
13		192. 7	221. 6	252.23	284.58	316. 5	344.35
14		193. 3	222. 6	253.28	286. 3	317. 5	345.30
15		194. 0	223. 6	254.33	287. 7	318. 4	346.24
16		194.56	224. 7	255.38	288.12	319. 3	347.19
17		195.53	225. 8	256.43	289.16	320. 2	348.14
18		196.50	226. 9	257.48	290.20	321. 0	349. 8
19		197.47	227.10	258.53	291.24	321.59	350. 3
20		198.44	228.12	259.58	292.28	322.57	350.57
21		199.41	229.13	261. 3	293.32	323.55	351.52
22		200.38	230.15	262. 8	294.35	324.53	352.46
23		201.35	231.16	263.14	295.38	325.51	353.41
24		202.32	232.18	164.19	296.41	326.49	354.35
25		203.30	233.20	265.25	297.44	327.46	355.29
26		204.27	234.22	266.30	298.47	328.43	356.24
27		205.25	235.24	267.35	299.49	329.40	357.18
28		206.22	236.27	268.41	300.52	330.37	358.12
29		207.20	237.29	269.46	301.54	331.34	359. 6
30		208.18	238.32	270.52	302.56	332.30	360. 0

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	27.17	56.42	88.42	121. 6	151.29
1	0.53	28.13	57.44	89.48	122. 9	152.28
2	1.47	29.10	58.46	90.53	123.12	153.26
3	2.41	30. 6	59.48	91.59	124.15	154.24
4	3.35	31. 3	60.50	93. 4	125.18	155.22
5	4.29	32. 0	61.53	94. 9	126.20	156.20
6	5.22	32.57	62.56	95.15	127.22	157.18
7	6.16	33.54	63.59	96.20	128.24	158.16
8	7.10	34.52	65. 2	97.26	129.26	159.13
9	8. 4	35.49	66. 5	98.31	130.28	160.11
10	8.58	36.47	67. 8	99.36	131.29	161. 8
11	9.52	37.45	68.12	100.42	132.31	162. 5
12	10.46	38.43	69.16	101.47	133.32	163. 2
13	11.40	39.41	70.20	102.52	134.34	163.59
14	12.34	40.39	71.24	103.57	135.35	164.56
15	13.29	41.38	72.28	105. 2	136.36	165.53
16	14.23	42.37	73.32	106. 7	137. 37	166.50
17	15.18	43.36	74.36	107.12	138.37	167.47
18	16.12	44.36	75.41	108.17	139.37	168.43
19	17. 7	45.35	76.45	109.22	140.37	169.40
20	18. 2	46.35	77.50	110.26	141.37	170.36
21	18.57	47.35	78.55	111.31	142.37	171.33
22	19.52	48.35	80. 0	112.35	143.37	172.30
23	20.47	49.35	81. 5	113.39	144.37	173.26
24	21.42	50.35	82.10	114.43	145.37	174.23
25	22.38	51.36	83.15	115.47	146.36	175.19
26	23.33	52.37	84.20	116.51	147.35	176.16
27	24.29	53. 38	85.25	117.55	148.34	177.12
28	25.25	54.39	86.31	118.59	149.32	178. 8
29	26.21	55.40	87.36	120. 3	150.31	179. 4
30	27.17	56.42	88.42	121. 6	151.29	180. 0

ad Latit. Loci 3. grad.

		♎	♏	♐	♑	♒	♓
°		° ′	° ′	° ′	° ′	° ′	° ′
0		180. 0	208.31	238.54	271.18	303.18	332.43
1		180.56	209.29	239.57	272.24	304.20	333.39
2		181.52	210.28	241. 1	273.29	305.21	334.35
3		182.48	211.26	242. 5	274.35	306.22	335.31
4		183.44	212.25	243. 9	275.40	307.23	336.27
5		184.41	213.24	244.13	276.45	308.24	337.22
6		185.37	214.23	245.17	277.50	309.25	338.18
7		186.34	215.23	246.21	278.55	310.25	339.13
8		187.30	216.23	247.25	280. 0	311.25	340. 8
9		188.27	217.23	248.29	281. 5	312.25	341. 3
10		189.24	218.23	249.34	282.10	313.25	341.58
11		190.20	219.23	250.38	283.15	314.25	342.53
12		191.17	220.23	251.43	284.19	315.24	343.48
13		192.13	221.23	252.48	285.24	316.24	344.42
14		193.10	222.23	253.53	286.28	317.23	345.37
15		194. 7	223.24	254.58	287.32	318.22	346.31
16		195. 4	224.25	256. 3	288.36	319.21	347.26
17		196. 1	225.26	257. 8	289.40	320.19	348.20
18		196.58	226.28	258.13	290.44	321.17	349.14
19		197.55	227.29	259.18	291.48	322.15	350. 8
20		198.52	228.31	260.24	292.52	323.13	351. 2
21		199.49	229.32	261.29	293.55	324.11	351.56
22		200.47	230.34	262.34	294.58	325. 8	352 50
23		201.44	231.36	263.40	296. 1	326. 6	353.44
24		202.42	232.38	264.45	297. 4	327. 3	354.38
25		203.40	233.40	265.51	298. 7	328. 0	355.31
26		204.38	234.42	266.56	299.10	328.57	356.25
27		205.36	235.45	268. 1	300.12	329.54	357.19
28		206.34	236.48	269. 7	301.14	330.50	358.13
29		207.32	237.51	270.12	302.16	331.47	359. 7
30		208.31	238.54	271.18	303.18	332.43	360. 0

Tab. Aſcenſion. obliqvarum.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	27. 5	56.20	88.15	120.44	151.17
1	0. 53	28. 1	57.22	89.21	121.47	152.16
2	1. 46	28.57	58.24	90.27	122.50	153.15
3	2. 40	29.53	59.26	91.32	123.53	154.13
4	3. 33	30.49	60.28	92.38	124.56	155.12
5	4. 27	31.46	61.30	93.43	125.59	156.10
6	5. 20	32.43	62.32	94.48	127. 2	157. 8
7	6. 13	33.40	63.35	95.54	128. 4	158. 6
8	7. 7	34.37	64.38	97. 0	129. 6	159. 4
9	8. 0	35.34	65.41	98. 5	130. 8	160. 2
10	8. 54	36.31	66.44	99.10	131.10	161. 0
11	9. 47	37.28	67.47	100.16	132.12	161.58
12	10.41	38.26	68.51	101.21	133.14	162.55
13	11.35	39.24	69.55	102.27	134.15	163.53
14	12.29	40.22	70.59	103.32	135.17	164.50
15	13.23	41.20	72. 3	104.37	136.18	165.47
16	14.17	42.19	73. 7	105.42	137.19	166.44
17	15.11	43.18	74.11	106.47	138.20	167.41
18	16. 5	44.17	75.15	107.52	139.20	168.38
19	16.59	45.16	76.19	108.57	140.21	169.35
20	17.54	46.15	77.24	110. 2	141.21	170.32
21	18.48	47.15	78.29	111. 7	142.22	171.29
22	19.43	48.15	79.34	112.11	143.22	172.26
23	20.38	49.15	80.39	113.16	144.22	173.23
24	21.33	50.15	81.44	114.20	145.22	174.20
25	22.28	51.15	82.49	115.24	146.22	175.17
26	23.23	52.16	83.54	116.28	147.21	176.14
27	24.18	53.17	84.59	117.32	148.20	177.11
28	25.14	54.18	86. 4	118.36	149.19	178. 7
29	26. 9	55.19	87. 9	119.40	150.18	179. 4
30	27. 5	56.20	88.15	120.44	151.17	180. 0

Ad latit. loci 4. Grad.

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	208.43	239.16	271.45	303.40	332.55
1	180.56	209.42	240.20	272.51	304.41	333.51
2	181.53	210.41	241.24	273.56	305.42	334.46
3	182.49	211.40	242.28	275. 1	306.43	335.42
4	183.46	212.39	243.32	276. 6	307.44	336.37
5	184.43	213.38	244.36	277.11	308.45	337.32
6	185.40	214.38	245.40	278.16	309.45	338.27
7	186.37	215.38	246.44	279.21	310.45	339.22
8	187.34	216.38	247.49	280.26	311.45	340.17
9	188.31	217.38	248.53	281.31	312.45	341.12
10	189.28	218.39	249.58	282.36	313.45	342. 6
11	190.25	219.39	251. 3	283.41	314.44	343. 1
12	191.22	220.40	252. 8	284.45	315.43	343.55
13	192.19	221.40	253.13	285.49	316.42	344.49
14	193.16	222.41	254.18	286.53	317.41	345.42
15	194.13	223.42	255.23	287.57	318.40	346.37
16	195.10	224.43	256.28	289. 1	319.38	347.31
17	196. 7	225.45	257.33	290. 5	320.36	348.25
18	197. 5	226.46	258.39	291. 9	321.34	349.19
19	198. 2	227.48	259.44	292.13	322.32	350.13
20	199. 0	228.50	260.50	293.16	323.29	351. 6
21	199.58	229.52	261.55	294.19	324.26	352. 0
22	200.56	230.54	263. 0	295.22	325.23	352.53
23	201.54	231.56	264. 6	296.25	326.20	353.47
24	202.52	232 58	265.12	297.28	327.17	354.40
25	203.50	234. 1	266.17	298.30	328.14	355.33
26	204.48	235. 4	267.22	299.32	329.11	356.27
27	205.47	236. 7	268.28	300.34	330. 7	357.20
28	206.45	237.10	269.33	301.36	331. 3	358.14
29	207.44	238.13	270.39	302.38	331.59	359. 7
30	208.43	239.16	271.45	303.40	332.55	360. 0

Tab. Aſcenſ. obliqvarum Eclipticæ

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	26.53	55.57	87.49	120.21	151. 5
1	0.53	27.48	56.58	88.55	121.25	152. 4
2	1.46	28.44	58. 0	90. 1	122.28	153. 3
3	2.39	29.39	59. 2	91. 6	123.32	154. 2
4	3.32	30.35	60. 4	92.12	124.35	155. 1
5	4.25	31.31	61. 6	93.17	125.38	156. 0
6	5.18	32.27	62. 8	94.23	126.41	156.59
7	6.11	33.24	63.11	95.29	127.44	157.57
8	7. 4	34.21	64.13	96.34	128.46	158.56
9	7.57	35.18	65.16	97.40	129.49	159.54
10	8.50	36.15	66.19	98.45	130.51	160.52
11	9.43	37.12	67.22	99.51	131.53	161.50
12	10.36	38.10	68.26	100.56	132.55	162.48
13	11.30	39. 7	69.29	102. 1	133.57	163.46
14	12.23	40. 5	70.33	103. 6	134.59	164.44
15	13.17	41. 3	71.37	104.11	136. 1	165.41
16	14.10	42. 1	72.41	105.17	137. 2	166.39
17	15. 4	43. 0	73.45	106.22	138. 3	167.36
18	15.58	43.59	74.50	107.27	139. 4	168.34
19	16.52	44.58	75.54	108.32	140. 5	169.31
20	17.46	45.57	76.59	109.37	141. 5	170.28
21	18.40	46.56	78. 3	110.42	142. 6	171.26
22	19.34	47.55	79. 8	111.47	143. 6	172.23
23	20.29	48.55	80.13	112.51	144. 7	173.21
24	21.23	49.54	81.18	113.56	145. 7	174.18
25	22.18	50.54	82.23	115. 0	146. 7	175.15
26	23.13	51.54	83.28	116. 5	147. 7	176.12
27	24 8	52.55	84.33	117. 9	148. 7	177. 9
28	25. 3	53.55	85.38	118.13	149. 6	178. 6
29	25.58	54.56	86.43	119.17	150. 6	179. 3
30	26.53	55.57	87.49	120.21	151. 5	180. 0

	♎	♏	♐	♑	♒	♓
0	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	208.55	239.39	272.11	304. 3	333.
1	180.57	209.54	240.43	273.17	305. 4	334.
2	181.54	210.54	241.47	274.22	306. 5	334.5
3	182.51	211.53	242.51	275.27	307. 5	335.5
4	183.48	212.53	243.55	276.32	308. 6	336.4
5	184.45	213.53	245. 0	277.37	309. 6	337.4
6	185.42	214.53	246. 4	278.42	310. 6	338.3
7	186.39	215.53	247. 9	279.47	311. 5	339.3
8	187.37	216.54	248.13	280.52	312. 5	340.2
9	188.34	217.54	249.18	281.57	313. 4	341.2
10	189.32	218.55	250.23	283. 1	314. 3	342.1
11	190.29	219.55	251.28	284. 6	315. 2	343.
12	191.26	220.56	252.33	285.10	316. 1	344.
13	192.24	221.57	253.38	286.15	317. 0	344.5
14	193.21	222.58	254.43	287.19	317.59	345.5
15	194.19	223.59	255.49	288.23	318.57	346.4
16	195.16	225. 1	256.54	289.27	319.55	347.37
17	196.14	226. 3	257.59	290.31	320.53	348.3
18	197.12	227. 5	259. 4	291.34	321.50	349.24
19	198.10	228. 7	260. 9	292.38	322.48	350.17
20	199. 8	229. 9	261.15	293.41	323.45	351.1
21	200. 6	230.11	262.20	294.44	324.42	352. 3
22	201. 4	231.14	263.26	295.47	325.39	352.56
23	202. 3	232.16	264.31	296.49	326.36	353.49
24	203. 1	233.19	265.37	297.52	327.33	354.42
25	204. 0	234.22	266.43	298.54	328.29	355.35
26	204.59	235.25	267.48	299.56	329.25	356.28
27	205.58	236.28	268.54	300.58	330.21	357.21
28	206.57	237.32	269.59	302. 0	331.16	358.14
29	207.56	238.35	271. 5	303. 2	332.12	359. 7
30	208.55	239.39	272.11	304. 3	333. 7	360. 0

Tab. Aſcenſ. obliqvarum Eclipticæ

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	26.40	55.35	87.23	119.59	150.52
1	0.52	27.35	56.36	88.29	121. 3	151.52
2	1.44	28.30	57.38	89.35	122. 7	152.51
3	2.37	29.26	58.39	90.40	123.10	153.51
4	3.29	30.21	59.41	91.46	124.14	154.50
5	4.22	31.17	60.43	92.51	125.17	155.49
6	5.14	32.13	61.45	93.57	126.20	156.48
7	6. 7	33. 9	62.47	95. 3	127.23	157.47
8	7. 0	34. 6	63.50	96. 8	128.26	158.46
9	7.53	35. 2	64.52	97.14	129.29	159.45
10	8.46	35.59	65.55	98.19	130.31	160.43
11	9.39	36.56	66.58	99.25	131.34	161.42
12	10.32	37.53	68. 1	100.30	132.36	162.40
13	11.25	38.50	69. 5	101.36	133.39	163.39
14	12.18	39.47	70. 8	102.41	134.41	164.37
15	13.11	40.45	71.12	103.46	135.43	165.35
16	14. 4	41.43	72.16	104.52	136.45	166.33
17	14.57	42.41	73.20	105.57	137.46	167.31
18	15.50	43.40	74.24	107. 3	138.47	168.29
19	16.43	44.38	75.28	108. 8	139.48	169.27
20	17.37	45.37	76.33	109.13	140.49	170.24
21	18.31	46.36	77.37	110.18	141.50	171.22
22	19.25	47.35	78.42	111.23	142.50	172.20
23	20.19	48.34	79.47	112.28	143.51	173.17
24	21.13	49.33	80.52	113.33	144.51	174.15
25	22. 7	50.33	81.57	114.37	145.51	175.12
26	23. 1	51.33	83. 2	115.42	146.52	176.10
27	23.56	52.33	84. 7	116.46	147.52	177. 8
28	24.50	53.34	85.12	117.51	148.52	178. 5
29	25.45	54.34	86.17	118.55	149.52	179. 3
30	26.40	55.35	87.23	119.59	150.52	180. 0

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	209. 8	240. 1	272.37	304.25	333.20
1	180.57	210. 8	241. 5	273.43	305.26	334.15
2	181.55	211. 8	242. 9	274.48	306.26	335.10
3	182.52	212. 8	243.14	275.53	307.27	336. 4
4	183.50	213. 8	244.18	276.58	308.27	336.59
5	184.48	214. 9	245.23	278. 3	309.27	337.53
6	185.45	215. 9	246.27	279. 8	310.27	338.47
7	186.43	216. 9	247.32	280.13	311.26	339.41
8	187.40	217.10	248.37	281.18	312.25	340.35
9	188.38	218.10	249.42	282.23	313.24	341.29
10	189.36	219.11	250.47	283.27	314.23	342.23
11	190.33	220.12	251.52	284.32	315.22	343.17
12	191.31	221.13	252.57	285.36	316.20	344.10
13	192 29	222.14	254. 3	286.40	317.19	345. 3
14	193.27	223.15	255. 8	287.44	318.17	345.56
15	194.25	224.17	256.14	288.48	319.15	346.49
16	195.23	225.19	257.19	289.52	320.13	347.42
17	196.21	226.21	258.28	290.55	321.10	348.35
18	197.20	227.24	259.30	291.59	322. 7	349.28
19	198.18	228.26	260.35	293. 2	323. 4	350.21
20	199.17	229.29	261.41	294. 5	324. 1	351.14
21	200.15	230.31	262.46	295. 8	524.58	352. 7
22	201.14	231.34	263.52	296.10	325.54	353. 0
23	202.13	232.37	264.57	297.13	326.51	353.53
24	203.12	233.40	266. 3	298.15	327.47	354.46
25	204.11	234.43	267. 9	299.17	328.43	355.38
26	205.10	235.46	268.14	300.19	329.39	356.31
27	206. 9	236.50	269.20	301.21	330.34	357.23
28	207. 9	237.53	270.25	302.22	331.30	358.16
29	208. 8	238.57	271.31	303.24	332.25	359. 8
30	209. 8	240. 1	272.37	304.25	333.20	3 c

Tabula Aſcenſionum obliqvarum.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	26.28	55.12	86.56	119.36	150.40
1	0.52	27.23	56.13	88. 1	120.40	151.40
2	1.44	28.18	57.14	89. 7	121.44	152.40
3	2.36	29.13	58.16	90.12	122.48	153.40
4	3.28	30. 8	59.17	91.18	123.52	154.40
5	4.20	31. 3	60.19	92.24	124.56	155.39
6	5.12	31.59	61.21	93.29	126. 0	156.39
7	6. 4	32.55	62.23	94.35	127. 3	157.38
8	6.57	33.51	63.25	95.41	128. 6	158.37
9	7.49	34.47	64.27	96.47	129. 9	159.36
10	8.42	35.43	65.30	97.53	130.12	160.35
11	9.34	36.39	66.33	98.59	131.15	161.34
12	10.26	37.36	67.36	100. 5	132.18	162.33
13	11.19	38.33	68.40	101.10	133.20	163.31
14	12.11	39.30	69.43	102.16	134.23	164.30
15	13. 4	40.27	70.47	103.21	135.25	165.28
16	13.57	41.25	71.51	104.27	136.27	166.27
17	14.50	42.23	72.55	105.32	137.29	167.25
18	15.43	43.21	73.59	106.38	138 30	168.24
19	16.36	44.19	75. 3	107.43	139.32	169.22
20	17.29	45.18	76. 7	108.48	140.33	170.20
21	18.22	46.16	77.11	109.53	141.35	171.18
22	19.16	47.15	78.16	110.58	142.36	172.16
23	20. 9	48.14	79.20	112. 3	143.37	173.14
24	21. 3	49.13	80.25	113. 8	144.38	174.12
25	21.57	50.12	81.30	114.13	145.39	175.10
26	22.51	51.12	82.35	115.18	146.40	176. 8
27	23.45	52.12	83.40	116.23	147.40	177. 6
28	24.39	53.12	84.45	117.27	148.40	178. 4
29	25.33	54.12	85.50	118.32	149.40	179. 2
30	26.28	55.12	86.56	119.36	150.40	180. 0

		♎	♏	♐	♑	♒	♓
°		° ′	° ′	° ′	° ′	° ′	° ′
0		180. 0	209.20	240.24	273. 4	304.48	333.32
1		180.58	210.20	241.28	274.10	305.48	334.27
2		181.56	211.20	242.33	275.15	306.48	335.21
3		182.54	212.20	243.37	276.20	307.48	336.15
4		183.52	213.20	244.42	277.25	308.48	337. 9
5		184.50	214.21	245.47	278.30	309.48	338. 3
6		185.48	215.22	246.52	279.35	310.47	338.57
7		186.46	216.23	247.57	280.40	311.46	339.51
8		187.44	217.24	249. 2	281.44	312.45	340.44
9		188.42	218.25	250. 7	282.49	313.44	341.38
10		189.40	219.27	251.12	283.53	314.42	342.31
11		190.38	220.28	252.17	284.57	315.41	343.24
12		191.36	221.30	253.22	286. 1	316.39	344.17
13		192.35	222.31	254.28	287. 5	317.37	345.10
14		193.33	223.33	255.33	288. 9	318.35	346. 3
15		194.32	224.35	256.39	289.13	319.33	346.56
16		195.30	225.37	257.44	290.17	320.30	347.49
17		196.29	226.40	258.50	291.20	321.27	348.41
18		197.27	227.42	259.55	292.24	322.24	349.34
19		198.26	228.45	261. 1	293.27	323.21	350.26
20		199.25	229.48	262. 7	294.30	324.17	351.18
21		200.24	230.51	263.13	295.33	325.13	352.11
22		201.23	231.54	264.19	296.35	326. 9	353. 3
23		202.22	232.57	265.25	297.37	327. 5	353.56
24		203.21	234. 0	266.31	298.39	328. 1	354.48
25		204.21	235. 4	267.36	299.41	328.57	355.40
26		205.20	236. 8	268.42	300.43	329.52	356.32
27		206.20	237.12	269.48	301.44	330.47	357.24
28		207.20	238.16	270.53	302.46	331.42	358.16
29		208.20	239.20	271.59	303.47	332.37	359. 8
30		209.20	240.24	273. 4	304.48	333.32	360. 0

Tab. Aſcenſionum obliqvarum Eclipt.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	26.16	54.50	86.30	119.14	150.28
1	0.51	27.10	55.51	87.35	120.19	151.28
2	1 43	28. 4	56.52	88.41	121.23	152.28
3	2.34	28.59	57.53	89.46	122.27	153.28
4	3.26	29.53	58.54	90.52	123.31	154.28
5	4.18	30.48	59.56	91.58	124.35	155.28
6	5. 9	31.43	60.58	93. 3	125.39	156.28
7	6. 1	32.39	62. 0	94. 9	126.42	157.28
8	6.53	33.35	63. 2	95.15	127.46	158.27
9	7.45	34.31	64. 4	96.21	128.49	159.27
10	8.37	35.27	65. 6	97.27	129.52	160.26
11	9.29	36.23	66. 9	98.33	130.55	161.26
12	10.21	37.19	67.12	99.39	131.58	162.25
13	11.13	38.16	68.15	100.44	133. 1	163.24
14	12. 5	39.12	69.18	101.50	134. 4	164.23
15	12.58	40. 9	70.21	102.55	135. 7	165.22
16	13.50	41. 6	71.25	104. 1	136. 9	166.21
17	14.42	42. 4	72.29	105. 7	137.11	167.20
18	15.35	43. 2	73.33	106.13	138.13	168.18
19	16.27	44. 0	74.37	107.19	139.15	169.17
20	17.20	44.58	75.41	108.24	140.17	170.15
21	18.13	45.56	76.45	109.30	141.19	171.14
22	19. 6	46.55	77.50	110.35	142.20	172.13
23	19.59	47.53	78.54	111.40	143.22	173.11
24	20.52	48.52	79.59	112.45	144.23	174.10
25	21.46	49.51	81. 4	113.50	145.24	175. 8
26	22.40	50.50	82. 9	114.55	146.25	176. 7
27	23.34	51.50	83.14	116. 0	147.26	177. 5
28	24.28	52.50	84.19	117. 5	148.27	178. 4
29	25.22	53.50	85.24	118.10	149.28	179. 2
30	26.16	54.50	86.30	119.14	150.28	180. 0

Ad latitudinem loci 8. Graduum.

	♎	♏	♐	♑	♒	♓
	o '	o '	o '	o '	o '	o '
0	180. 0	209.32	240.46	273.30	305.10	333.44
1	180.58	210.32	241.50	274.36	306.10	334.38
2	181.56	211.33	242.55	275.41	307.10	335.32
3	182.55	212.34	244. 0	276.46	308.10	336.26
4	183.53	213.35	245. 5	277.51	309.10	337.20
5	184.52	214.36	246.10	278.56	310. 9	338.14
6	185.50	215.37	247.15	280. 1	311. 8	339. 8
7	186.49	216.38	248.20	281. 6	312. 7	340. 1
8	187.47	217.40	249.25	282.10	313. 5	340.54
9	188.46	218.41	250.30	283.15	314. 4	341.47
10	189.45	219.43	251.36	284.19	315. 2	342.40
11	190.43	220.45	252.41	285.23	316. 0	343.33
12	191.42	221.47	253.47	286.27	316.58	344.25
13	192.40	222.49	254.53	287.31	317.56	345.18
14	193.39	223.51	255.59	288.35	318.54	346.10
15	194.38	224.53	257. 5	289.39	319.51	347. 2
16	195.37	225.56	258.10	290.42	320.48	347.55
17	196.36	226.59	259.16	291.45	321.44	348.47
18	197.35	228. 2	260.21	292.48	322.41	349.39
19	198.34	229. 5	261.27	293.51	323.37	350.31
20	199.34	230. 8	262.33	294.54	324.33	351.23
21	200.33	231.11	263.39	295.56	325.29	352.15
22	201.33	232.14	264.45	296.58	326.25	353. 7
23	202.32	233.18	265.51	298. 0	327.21	353.59
24	203.32	234.21	266.57	299. 2	328.17	354.51
25	204.32	235.25	268. 2	300. 4	329.12	355.42
26	205.32	236.29	269. 8	301. 6	330. 7	356.34
27	206.32	237.33	270.14	302. 7	331. 1	357.26
28	207.32	238.37	271.19	303. 8	331.56	358.17
29	208.32	239.41	272.25	304. 9	332.50	359. 9
30	209.32	240.46	273.30	305.10	333.44	360. 0

Tab. Aſcenſionum obliqvarum Eclipt.

	♈	♉	♊	♋	♌	♍
°	° '	° '	° '	° '	° '	° '
0	0. 0	26. 3	54.28	86. 3	118.52	150.15
1	0.51	26.57	55.28	87. 8	119.57	151.16
2	1.42	27.51	56.29	88.14	121. 1	152.17
3	2.33	28.45	57.30	89.19	122. 6	153.17
4	3.24	29.39	58.31	90.25	123.10	154.18
5	4.16	30.34	59.32	91.31	124.14	155.18
6	5. 7	31.29	60.33	92.36	125.18	156.18
7	5.58	32.24	61.35	93.42	126.22	157.18
8	6.50	33.20	62.37	94.48	127.25	158.18
9	7.41	34.15	63.39	95.54	128.29	159.18
10	8.33	35.11	64.41	97. 0	129.32	160.18
11	9.24	36. 7	65.44	98. 6	130.36	161.18
12	10.16	37. 3	66.47	99.12	131.39	162.17
13	11. 7	37.59	67.50	100.18	132.43	163.17
14	11.59	38.55	68.53	101.24	133.46	164.16
15	12.51	39.51	69.56	102.30	134.49	165.15
16	13.43	40.48	70.59	103.36	135.52	166.15
17	14.35	41.45	72. 3	104.42	136.54	167.14
18	15.27	42.43	73. 6	105.48	137.57	168.13
19	16.19	43.40	74. 9	106.54	138.59	169.12
20	17.12	44.38	75.13	107.59	140. 1	170.11
21	18. 4	45.36	76.17	109. 5	141. 3	171.10
22	18.57	46.34	77.22	110.10	142. 5	172. 9
23	19.50	47.33	78.27	111.16	143. 7	173. 8
24	20.43	48.31	79.32	112.21	144. 9	174. 7
25	21.36	49.30	80.37	113.26	145.10	175. 6
26	22.29	50.29	81.42	114.32	146.11	176. 5
27	23.22	51.29	82.47	115.37	147.12	177. 4
28	24.16	52.28	83.52	116.42	148.13	178. 3
29	25. 9	53.28	84.57	117.47	149.14	179. 2
30	26. 3	54.28	86. 3	118.52	150.15	180. 0

	♎	♏	♐	♑	♒	♓
o	o '	o '	o '	o '	o '	o '
0	180. 0	209.45	241. 8	273.57	305.32	333.57
1	180.58	210.46	242.13	275. 3	306.32	334.51
2	181.57	211.47	243.18	276. 8	307.32	335.44
3	182.56	212.48	244.23	277.13	308.31	336.38
4	183.55	213.49	245.28	278.18	309.31	337.31
5	184.54	214.50	246.34	279.23	310.30	338.24
6	185.53	215.51	247.39	280.28	311.29	339.17
7	186.52	216.53	248.44	281.33	312.27	340.10
8	187.51	217.55	249.50	282.38	313.26	341. 3
9	188.50	218.57	250.55	283.43	314.24	341.56
10	189.49	219.59	252. 1	284.47	315.22	342.48
11	190.48	221. 1	253. 6	285.51	316.20	343.41
12	191.47	222. 3	254.12	286.54	317.17	344.33
13	192.46	223. 6	255.18	287.58	318.15	345.25
14	193.45	224. 8	256.24	289. 1	319.12	346.17
15	194.45	225.11	257.30	290. 4	320. 9	347. 9
16	195.44	226.14	258.36	291. 7	321. 5	348. 1
17	196.43	227.17	259.42	292.10	322. 1	348.53
18	197.43	228.21	260.48	293.13	322.57	349.44
19	198.42	229.24	261.54	294.16	323.53	350.36
20	199.42	230.28	263. 0	295.19	324.49	351.27
21	200.42	231.31	264. 6	296.21	325.45	352.19
22	201.42	232.35	265.12	297.23	326.40	353.10
23	202.42	233.38	266.18	298.25	327.36	354. 2
24	203.42	234.42	267.24	299.27	328.31	354.53
25	204.42	235.46	268.29	300.28	329.26	355.44
26	205.42	236.50	269.35	301.29	330.21	356.36
27	206.43	237.54	270.41	302.30	331.15	357.27
28	207.43	238.59	271.46	303.31	332. 9	358.18
29	208.44	240. 3	272.52	304.32	333. 3	359. 9
30	209.45	241. 8	273.57	305.32	333.57	360. 0

Tab. Aſcenſion. obliqvarum. Ecl.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	25.51	54. 5	85.36	118.29	150. 3
1	0.50	26.44	55. 5	86.42	119.34	151. 4
2	1.41	27.38	56. 6	87.47	120.39	152. 5
3	2.32	28.32	57. 6	88.53	121.43	153. 6
4	3.23	29.26	58. 7	89.58	122.48	154. 7
5	4.14	30.20	59. 8	91. 4	123.52	155. 7
6	5. 5	31.14	60. 9	92.10	124.56	156. 8
7	5.56	32. 9	61.11	93.16	126. 0	157. 8
8	6.47	33. 4	62.12	94.22	127. 4	158. 9
9	7.38	33.59	63.14	95.28	128. 8	159. 9
10	8.29	34.54	64.16	96.34	129.12	160. 9
11	9.20	35.49	65.18	97.40	130.16	161. 9
12	10.11	36.45	66.21	98.46	131.20	162. 9
13	11. 2	37.41	67.23	99.51	132.24	163. 9
14	11.53	38.37	68.26	100.57	133.28	164. 9
15	12.45	39.33	69.29	102. 3	134.31	165. 9
16	13.36	40.30	70.32	103.10	135.34	166. 9
17	14.28	41.27	71.36	104.16	136.37	167. 9
18	15.19	42.24	72.40	105.22	137.40	168. 8
19	16.11	43.21	73.44	106.28	138.43	169. 8
20	17. 3	44.18	74.48	107.34	139.45	170. 7
21	17.55	45.16	75.52	108.40	140.48	171. 7
22	18.47	46.14	76.56	109.46	141.50	172. 6
23	19.40	47.12	78. 1	110.51	142.52	173. 6
24	20.32	48.10	79. 5	111.57	143.54	174. 5
25	21.25	49. 4	80.10	113. 2	144.56	175. 4
26	22.18	50. 7	81.15	114. 8	145.58	176. 4
27	23.11	51. 6	82.20	115.13	146.59	177. 3
28	24. 4	52. 6	83.25	116.19	148. 1	178. 2
29	24.57	53. 5	84.30	117.24	149. 2	179. 1
30	25.51	54. 5	85.36	118.29	150. 3	180. 0

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	209.57	241.31	274.24	305.55	334. 9
1	180.59	210.58	242.36	275.30	306.55	335. 3
2	181.58	211.59	243.41	276.35	307.54	335.56
3	182.57	213. 1	244.47	277.40	308.54	336.49
4	183.56	214. 2	245.52	278.45	309.53	337.42
5	184.56	215. 4	246.58	279.50	310.52	338.35
6	185.55	216. 6	248. 3	280.55	311.50	339.28
7	186.54	217. 8	249. 9	281.59	312.48	340.20
8	187.54	218.10	250.14	283. 4	313.46	341.13
9	188.53	219.12	251.20	284. 8	314.44	342. 5
10	189.53	220.15	252.26	285.12	315.42	342.57
11	190.52	221.17	253.32	286.16	316.39	343.49
12	191.52	222.20	254.38	287.20	317.36	344.41
13	192.51	223.23	255.44	288.24	318.33	345.32
14	193.51	224.25	256.50	289.28	319.30	346.24
15	194.51	225.29	257.56	290.31	320.27	347.15
16	195.51	226.32	259. 2	291.34	321.23	348. 7
17	196.51	227.36	260. 8	292.37	322.19	348.58
18	197.51	228.40	261.14	293.39	323.15	349.49
19	198.51	229.44	262.20	294.42	324.10	350.40
20	199.51	230.48	263.26	295.44	325. 6	351.31
21	200.51	231.52	264.32	296.46	326. 1	352.22
22	201.51	232.56	265.38	297.48	326.56	353.13
23	202.52	234. 0	266.44	298.49	327.51	354. 4
24	203.52	235. 4	267.50	299.51	328.46	354.55
25	204.53	236. 8	268.56	300.52	329.40	355.46
26	205.53	237.12	270. 2	301.53	330.34	356.37
27	206.54	238.17	271. 7	302.54	331.28	357.28
28	207.55	239.21	272.13	303.54	332.22	358.19
29	208.56	240.26	273.18	304.55	333.16	359.10
30	209.57	241.31	274.24	305.55	334. 9	360. 0

Tab. Aſcenſionum obliqvarum Eclipt.

°	♈	♉	♊	♋	♌	♍
	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	25.38	53.42	85. 9	118. 6	149.50
1	0.50	26.31	54.42	86.14	119.11	150.52
2	1.40	27.24	55.42	87.20	120.16	151.53
3	2.31	28.18	56.43	88.25	121.21	152.55
4	3.21	29.11	57.43	89.31	122.26	153.56
5	4.12	30. 5	58.44	90.37	123.31	154.57
6	5. 2	30.59	59.45	91.43	124.36	155.58
7	5.53	31.54	60.46	92.49	125.40	156.59
8	6.45	32.48	61.48	93.55	126.45	158. 0
9	7.34	33.43	62.49	95. 1	127.49	159. 1
10	8.25	34.38	63.51	96. 7	128.53	160. 1
11	9.15	35.33	64.53	97.13	129.57	161. 2
12	10. 6	36.28	65.56	98.19	131. 1	162. 2
13	10.57	37.24	66.58	99.25	132. 9	163. 3
14	11.48	38.19	68. 1	100.31	133. 9	164. 3
15	12.39	39.15	69. 4	101.38	134.13	165. 3
16	13.30	40.11	70. 7	102.45	135.16	166. 3
17	14.21	41. 8	71.10	103.51	136.19	167. 3
18	15.12	42. 5	72.14	104.57	137.22	168. 3
19	16. 3	43. 2	73.17	106. 3	138.25	169. 3
20	16.55	43.59	74.21	107. 9	139.28	170. 3
21	17.47	44.56	75.25	108.15	140.31	171. 3
22	18.39	45.54	76.29	109.21	141.34	172. 3
23	19.31	46.51	77.34	110.27	142.36	173. 3
24	20.23	47.49	78.38	111.33	143.39	174. 3
25	21.15	48.47	79.43	112.38	144.41	175. 2
26	22. 7	49.46	80.48	113.44	145.43	176. 2
27	23. 0	50.45	81.53	114.50	146.45	177. 2
28	23.52	51.44	82.58	115.55	147.47	178. 1
29	24.45	52.43	84. 3	117. 1	148.49	179. 1
30	25.38	53.42	85. 9	118. 6	149.50	180. 0

Ad latitudinem loci 11. Graduum.

	♎	♏	♐	♑	♒	♓
0	° '	° '	° '	° '	° '	° '
0	180. 0	210.10	241.54	274.51	306.18	334.22
1	180.59	211.11	242.59	275.57	307.17	335.15
2	181.59	212.13	244. 5	277. 2	308.16	336. 8
3	182.58	213.15	245.10	278. 7	309.15	337. 0
4	183.58	214.17	246.16	279.12	310.14	337.53
5	184.58	215.19	247.22	280.17	311.13	338.45
6	185.57	216.21	248.27	281.22	312.11	339.37
7	186.57	217.24	249.33	282.26	313. 9	340.29
8	187.57	218.26	250.39	283.31	314. 6	341.21
9	188.57	219.29	251.45	284.35	315. 4	342.13
10	189.57	220.32	252.51	285.39	316. 1	343. 5
11	190.57	221.35	253.57	286.43	316.58	343.57
12	191.57	222.38	255. 3	287.46	317.55	344.48
13	192.57	223.41	256. 9	288.50	318.52	345.39
14	193.57	224.44	257.15	289.53	319.49	346.30
15	194.57	225.47	258.22	290.56	320.45	347.21
16	195.57	226.51	259.29	291.59	321.41	348.12
17	196.57	227.55	260.35	293. 2	322.36	349. 3
18	197.58	228.59	261.41	294. 4	323.32	349.54
19	198.58	230. 3	262.47	295. 7	324.27	350.45
20	199.59	231. 7	263.53	296. 9	325.22	351.35
21	200.59	232.11	264.59	297.11	326.17	452.26
22	202. 0	233.15	266. 5	298.12	327.12	353.17
23	203. 1	234.20	267.11	299.14	328. 6	354. 7
24	204. 2	235.24	268.17	300.15	329. 1	354.58
25	205. 3	236.29	269.23	301.16	329.55	355.48
26	206. 4	237.34	270.29	302.17	330.49	356.39
27	207. 5	238.39	271.35	303.17	331.42	357.29
28	208. 7	239.44	272.40	304.18	332.36	358.20
29	209. 8	240.49	273.46	305.18	333.29	359.10
30	210.10	241.54	274.51	306.18	334.22	360. 0

Tab. Aſcenſionum obliqvarum Eclipt.

	♈	♉	♊	♋	♌	♍
°	° '	° '	° '	° '	° '	° '
0	0. 0	25.25	53.19	84.42	117.43	149.37
1	0.50	26.18	54.19	85.47	118.49	150.39
2	1.40	27.11	55.19	86.53	119.54	151.41
3	2.30	28. 4	56.19	87.58	120.59	152.43
4	3.20	28.57	57.19	89. 4	122. 4	153.45
5	4.10	29.50	58.19	90.10	123. 9	154.46
6	5. 0	30.44	59.20	91.16	124.14	155.48
7	5.50	31.38	60.21	92.22	125.19	156.49
8	6.40	32.32	61.22	93.28	126.23	157.50
9	7.30	33.26	62.23	94.34	127.28	158.51
10	8.20	34.21	63.25	95.41	128.32	159.52
11	9.10	35.16	64.27	96.47	129.37	160.53
12	10. 0	36.11	65.30	97.53	130.41	161.54
13	10.51	37. 6	66.32	99. 0	131.46	162.55
14	11.41	38. 1	67.35	100. 6	132.50	163.56
15	12.32	38.56	68.38	101.12	133.54	164.56
16	13.22	39.52	69.41	102.19	134.58	165.57
17	14.13	40.48	70.44	103.25	136. 1	166.57
18	15. 4	41.45	71.48	104.31	137. 5	167.58
19	15.55	42.41	72.51	105.37	138. 8	168.58
20	16.46	43.38	73.55	106.43	139.11	169.58
21	17.37	44.35	74.59	107.49	140.14	170.59
22	18.29	45.32	76. 3	108.55	141.17	171.59
23	19.20	46.30	77. 7	110. 1	142.20	173. 0
24	20.12	47.27	78.11	111. 7	143.23	174. 0
25	21. 4	48.25	79.16	112.13	144.26	175. 0
26	21.56	49.23	80.21	113.19	145.29	176. 0
27	22.48	50.22	81.26	114.25	146.30	177. 0
28	23.40	51.21	82.31	115.31	147.33	178. 0
29	24.32	52.20	83.37	116.37	148.35	179. 0
30	25.25	53.19	84.42	117.43	149.37	180. 0

Ad latitudinem loci 12.Graduum.

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	210.23	242.17	275.18	306.41	334.35
1	181. 0	211.25	243.23	276.24	307.40	335.28
2	182. 0	212.27	244.29	277.29	308.39	336.20
3	183. 0	213.29	245.35	278.34	309.38	337.12
4	184. 0	214.31	246.41	279.39	310.37	338. 4
5	185. 0	215.34	247.47	280.44	311.35	338.56
6	186. 0	216.37	248.53	281.49	312.33	339.48
7	187. 0	217.40	249.59	282.53	313.30	340.40
8	188. 1	218.43	251. 5	283.57	314.28	341.31
9	189. 1	219.46	252.11	285. 1	315.25	342.23
10	190. 2	220.49	253.17	286. 5	316.22	343.14
11	191. 2	221.52	254.23	287. 9	317.19	344. 5
12	192. 2	222.55	255.29	288.12	318.15	344.56
13	193. 3	223.59	256.35	289.16	319.12	345.47
14	194. 3	225. 2	257.41	290.19	320. 8	346.38
15	195. 4	226. 6	258.48	291.22	321. 4	347.28
16	196. 4	227.10	259.54	292.25	321.59	348.19
17	197. 5	228.14	261. 0	293.28	322.54	349. 9
18	198. 6	229.19	262. 7	294.30	323.49	350. 0
19	199. 7	230.23	263.13	295.33	324.44	350.50
20	200. 8	231.28	264.19	296.35	325.39	351.40
21	201. 9	232.32	265.26	297.37	326.34	352.30
22	202.10	233.37	266.32	298.38	327.28	353.20
23	203.11	234.41	267.38	299.39	328.22	354.10
24	204.12	235.46	268.44	300.40	329.16	355. 0
25	205.14	236.51	269.50	301.41	330.10	355.50
26	206.15	237.56	270.56	302.41	331. 3	356.40
27	207.17	239. 1	272. 2	303.41	331.56	357.30
28	208.19	240. 6	273. 7	304.41	332.49	358.20
29	209.21	241.11	274.13	305.41	333.42	359.10
30	210.23	242.17	275.18	306.41	334.35	360. 0

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	25.12	52.55	84.14	117.19	149.24
1	0.49	26. 4	53.55	85.19	118.25	150.27
2	1.38	26.57	54.55	86.25	119.31	151.29
3	2.28	27.49	55.55	87.31	120.36	152.31
4	3.17	28.42	56.55	88.37	121.42	153.33
5	4. 7	29.35	57.55	89.43	122.47	154.35
6	4.56	30.28	58.56	90.49	123.52	155.37
7	5.46	31.22	59.57	91.55	124.57	156.39
8	6.36	32.16	60.58	93. 1	126. 2	157.41
9	7.26	33.10	61.59	94. 7	127. 7	158.43
10	8.16	34. 4	63. 0	95.14	128.12	159.44
11	9. 6	34.58	64. 2	96.20	129.17	160.46
12	9.56	35.53	65. 4	97.26	130.22	161.47
13	10.46	36.48	66. 6	98.32	131.27	162.48
14	11.36	37.43	67. 8	99.39	132.32	163.49
15	12.26	38.38	68.11	100.45	133.36	164.50
16	13.16	39.34	69.14	101.51	134.40	165.51
17	14. 6	40.30	70.17	102.58	135.44	166.52
18	14.57	41.26	71.21	104. 5	136.47	167.53
19	15.47	42.22	72.24	105.12	137.51	168.54
20	16.38	43.18	73.28	106.18	138.54	169.54
21	17.29	44.15	74.32	107.25	139.58	170.55
22	18.20	45.12	75.36	108.31	141. 1	171.56
23	19.11	46. 9	76.40	109.37	142. 5	172.56
24	20. 2	47. 6	77.44	110.43	143. 8	173.57
25	20.53	48. 3	78.49	111.49	144.11	174.57
26	21.44	49. 1	79.54	112.55	145.14	175.58
27	22.36	49.59	80.59	114. 1	146.17	176.59
28	23.28	50.58	82. 4	115. 7	147.19	177.59
29	24.20	51.56	83. 9	116.13	148.22	179. 0
30	25.12	52.55	84.14	117.19	149.24	180. 0

	♎	♏	♐	♑	♒	♓
o	o '	o '	o '	o '	o '	o '
0	180. 0	210.36	242.41	275.46	307. 5	334.48
1	181. 0	211.38	243.47	276.51	308. 4	335.40
2	182. 1	212.41	244.53	277.56	309. 2	336.32
3	183. 1	213.43	245.59	279. 1	310. 1	337.24
4	184. 2	214.46	247. 5	280. 6	310.59	338.16
5	185. 3	215.49	248.11	281.11	311.57	339. 7
6	186. 3	216.52	249.17	282.16	312.54	339.58
7	187. 4	217.55	250.23	283.20	313.51	340.49
8	188. 4	218.59	251.29	284.24	314.48	341.40
9	189. 5	220. 2	252.35	285.28	315.45	342.31
10	190. 6	221. 6	253.42	286.32	316.42	343.22
11	191. 6	222. 9	254.48	287.36	317.38	344.13
12	192. 7	223.13	255.55	288.39	318.34	345. 3
13	193. 8	224.16	257. 2	289.43	319.30	345.54
14	194. 9	225.20	258. 9	290.46	320.26	346.44
15	195.10	226.24	259.15	291.49	321.22	347.34
16	196.11	227.28	260.21	292.52	322.17	348.24
17	197.12	228.33	261.28	293.54	323.12	349.14
18	198.13	229.38	262.34	294.56	324. 7	350. 4
19	199.14	230.43	263.40	295.58	325. 2	350.54
20	200.16	231.48	264.46	297. 0	325.56	351.44
21	201.17	232.53	265.53	298. 1	326.50	352.34
22	202.19	233.58	266.59	299. 2	327.44	353.24
23	203.21	235. 3	268. 5	300. 3	328.38	354.14
24	204.23	236. 8	269.11	301. 4	329.32	355. 4
25	205.25	237.13	270.17	302. 5	330.25	355.53
26	206.27	238.18	271.23	303. 5	331.18	356.43
27	207.29	239.24	272.29	304. 5	332.11	357.32
28	208.31	240.29	273.35	305. 5	333. 3	358.22
29	209.33	241.35	274.41	306. 5	333.56	359.11
30	210.36	242.41	275.46	307. 5	334.48	360. 0

Tab. Aſcenſionum obliqvarum Eclipt.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	24.59	52.32	83.46	116.56	149.11
1	0.49	25.51	53.31	84.51	118. 2	150.14
2	1.38	26.43	54.30	85.57	119. 8	151.17
3	2.27	27.35	55.30	87. 3	120.14	152.19
4	3.16	28.27	56.30	88. 9	121.20	153.21
5	4. 5	29.20	57.30	89.15	122.25	154.24
6	4.54	30.13	58.30	90.21	123.31	155.27
7	5.43	31. 7	59.31	91.27	124.36	156.29
8	6.33	32. 0	60.32	92.33	125.42	157.31
9	7.32	32.54	61.33	93.39	126.47	158.33
10	8.12	33.48	62.34	94.46	127.52	159.35
11	9. 1	34.42	63.36	95.52	128.57	160.37
12	9.50	35.36	64.38	96.59	130. 2	161.39
13	10.40	36.30	65.40	98. 5	131. 7	162.40
14	11.29	37.24	66.42	99.12	132.12	163.42
15	12.19	38.19	67.45	100.19	133.17	164.43
16	13. 9	39.14	68.48	101.26	134.22	165.45
17	13.59	40.10	69.51	102.33	135.26	166.46
18	14.49	41. 6	70.54	103.39	136.30	167.48
19	15.39	42. 2	71.57	104.45	137.34	168.49
20	16.29	42.58	73. 0	105.52	138.38	169.50
21	17.19	43.54	74. 4	106.59	139.42	170.51
22	18.10	44.50	75. 8	108. 5	140.46	171.52
23	19. 0	45.48	76.12	109.12	141.49	172.53
24	19.51	46.44	77.16	110.18	142.53	173.54
25	20.42	47.41	78.21	111.24	143.56	174.55
26	21.33	48.39	79.26	112.31	144.59	175.56
27	22.24	49.37	80.31	113.37	146. 2	176.57
28	23.16	50.35	81.36	114.44	147. 5	177.58
29	24. 7	5. 33	82.41	115.50	148. 8	178.59
30	24.59	52.32	83.46	116.56	149.11	180. 0

	♎	♏	♐	♑	♒	♓
°	° '	° '	° '	° '	° '	° '
0	180. 0	210.49	243. 4	276.14	307.28	335. 1
1	181. 1	211.52	244.10	277.19	308.27	335.53
2	182. 2	212.55	245.16	278.24	309.25	336.44
3	183. 3	213.58	246.23	279.29	310.23	337.36
4	184. 4	215. 1	247.29	280.34	311.21	338.27
5	185. 5	216. 4	248.36	281.39	312.19	339.18
6	186. 6	217. 7	249.42	282.44	313.16	340. 9
7	187. 7	218.11	250.48	283.48	314.13	341. 0
8	188 8	219.14	251.55	284.52	315.10	341.50
9	189. 9	220.18	253. 1	285.56	316. 6	342.41
10	190.10	221.22	254. 8	287. 0	317. 2	343.31
11	191.11	222.26	255.14	288. 3	317.58	344.21
12	192.12	223.30	256.21	289. 6	318.54	345.11
13	193.14	224.34	257.27	290. 9	319.50	346. 1
14	194.15	225.38	258.34	291.12	320.46	346.51
15	195.17	226.43	259.41	292.15	321.41	347.41
16	196.18	227.48	260.48	293.18	322.36	348.31
17	197.20	228.53	261.55	294.20	323.30	349.20
18	198.21	229.58	263. 1	295.22	324.24	350.10
19	199.23	231. 3	264. 8	296.24	325.18	350.59
20	200.25	232. 8	265.14	297.26	326.12	351.48
21	201.27	233.13	266.21	298.27	327. 6	352.38
22	202.29	234.18	267.27	299.28	328. 0	353.27
23	203.31	235.24	268.33	300.29	328.53	354.17
24	204.33	236.29	269.39	301.30	329.47	355. 6
25	205.36	237.35	270.45	302.30	330.40	355.55
26	206.38	238.40	271.51	303.30	331.33	356.44
27	207.41	239.46	272.57	304.30	332.25	357.33
28	208.43	240.52	274. 3	305.30	333.17	358.22
29	209.46	241.58	275. 9	306.29	334. 9	359.11
30	210.49	243. 4	276.14	307.28	335. 1	360. 0

Tab. Aſcenſion, obliqvarum. Ecl.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	24.46	52. 9	83.19	116.33	148.58
1	0.48	25.37	53. 8	84.24	117.39	150. 1
2	1.37	26.29	54. 7	85.30	118.45	151. 4
3	2.26	27.21	55. 6	86.36	119.51	152. 7
4	3.14	28.13	56. 5	87.42	120.57	153.10
5	4. 3	29. 5	57. 5	88.48	122. 3	154.13
6	4.51	29.58	58. 5	89.54	123. 9	155.16
7	5.40	30.51	59. 6	91. 0	124.15	156.19
8	6.29	31.44	60. 6	92. 7	125.20	157.21
9	7.18	32.37	61. 7	93.13	126.26	158.24
10	8. 7	33.31	62. 8	94.19	127.31	159.26
11	8.56	34.24	63.10	95.26	128.37	160.28
12	9.45	35.18	64.12	96.33	129.42	161.30
13	10.34	36.12	65.14	97.39	130.48	162.32
14	11.23	37. 6	66.16	98.46	131.53	163.34
15	12.12	38. 0	67.18	99.52	132.58	164.36
16	13. 1	38.55	68.21	100.59	134. 3	165.38
17	13.51	39.50	69.24	102. 6	135. 8	166.40
18	14.40	40.46	70.27	103.13	136.12	167.42
19	15.30	41.41	71.30	104.20	137.17	168.44
20	16.20	42.37	72.33	105.26	138.21	169.45
21	17.10	43.33	73.37	106.33	139.25	170.47
22	18. 0	44.29	74.41	107.40	140.29	171.49
23	18.50	45.26	75.45	108.46	141.33	172.50
24	19.40	46.22	76.49	109.53	142.37	173.52
25	20.31	47.19	77.53	110.59	143.41	174.53
26	21.22	48.17	78.58	112. 6	144.45	175.55
27	22.13	49.15	80. 3	113.13	145.48	176.56
28	23. 4	50.13	81. 8	114.20	146.52	177.58
29	23.55	51.11	82.13	115.27	147.55	178.59
30	24.46	52. 9	83.19	116.33	148.58	180. 0

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	211. 2	243.27	276.41	307.51	335.14
1	181. 1	212. 5	244.33	277.47	308.49	336. 5
2	182. 2	213. 8	245.40	278.52	309.47	336.56
3	183. 4	214.12	246.47	279.57	310.45	337.47
4	184. 5	215.15	247.54	281. 2	311.43	338.38
5	185. 7	216.19	249. 1	282. 7	312.41	339.29
6	186. 8	217.23	250. 7	283.11	313.38	340.20
7	187.10	218.27	251.14	284.15	314.34	341.10
8	188.11	219.31	252.20	285.19	315.31	342. 0
9	189.13	220.35	253.27	286.23	316.27	342.50
10	190.15	221.39	254.34	287.27	317.23	343.40
11	191.16	222.43	255.40	288.30	318.19	344.30
12	192.18	223.48	256.47	289.33	319.14	345.20
13	193.20	224.52	257.54	290.36	320.10	346. 9
14	194.22	225.57	259. 1	291.39	321. 5	346.59
15	195.24	227. 2	260. 8	292.42	322. 0	347.48
16	196.26	228. 7	261.14	293.44	322.54	348.37
17	197.28	229.12	262.21	294.46	323.48	349.26
18	198.30	230.18	263.27	295.48	324.42	350.15
19	199.32	231.23	264.34	296.50	325.36	351. 4
20	200.34	232.29	265.41	297.52	326.29	351.53
21	201.36	233.34	266.47	298.53	327.23	352.42
22	202.39	234.40	267.53	299.54	328.16	353.31
23	203.41	235.45	269. 0	300.54	329. 9	354.20
24	204.44	236.51	270. 6	301.55	330. 2	355. 9
25	205.47	237.57	271.12	302.55	330.55	355.57
26	206.50	239. 3	272.18	303.55	331.47	356.46
27	207.53	240. 9	273.24	304.54	332.39	357.34
28	208.56	241.15	274.30	305.53	333.31	358.23
29	209.59	242.21	275.35	306.52	334.23	359.12
30	211. 2	243.27	276.41	307.51	335.14	360. 1

	♈	♉	♊	♋	♌	♍
0	0 ′	0 ′	0 ′	0 ′	0 ′	0 ′
0	0. 0	24.33	51.45	82.50	116. 9	148.45
1	0.48	25.24	52.44	83.55	117.16	149.49
2	1.36	26.15	53.43	85. 1	118.22	150.52
3	2.24	27. 7	54.42	86. 7	119.29	151.56
4	3.12	27.58	55.41	87.13	120.35	152.59
5	4. 1	28.50	56.40	88.19	121.41	154. 2
6	4.49	29.42	57.40	89.25	122.47	155. 5
7	5.37	30.34	58.40	90.31	123.53	156. 8
8	6.[illegible]6	31.27	59.40	91.37	124.59	157.11
9	7.14	32.20	60.41	92.44	126. 5	158.14
10	8. 3	33.13	61.42	93.51	127.10	159.17
11	8.51	34. 6	62.43	94.57	128.16	160.20
12	9.40	34.59	63.45	96. 4	129.22	161.23
13	10.28	35.53	64.47	97.11	130.28	162.25
14	11.17	36.47	65.49	98.18	131.34	163.28
15	12. 6	37.41	66.51	99.25	132.39	164.30
16	12.55	38.36	67.53	100.32	133.44	165.33
17	13.44	39.31	68.56	101.39	134.49	166.35
18	14.33	40.26	69.59	102.46	135.54	167.37
19	15.22	41.21	71. 2	103.53	136.59	168.39
20	16.11	42.16	72. 5	105. 0	138. 3	169.41
21	17. 0	43.12	73. 9	106. 7	139. 8	170.43
22	17.50	44. 8	74.13	107.14	140.13	171.45
23	18.40	45. 4	75.17	108.21	141.17	172.47
24	19.30	46. 0	76.21	109.28	142.22	173.49
25	20.20	46.57	77.25	110.34	143.26	174.51
26	21.10	47.54	78.30	111.41	144.30	175.53
27	22. 1	48.51	79.35	112.48	145.34	176.55
28	22.51	49.49	80.40	113.55	146.38	177.57
29	23.42	50.47	81.45	115. 2	147.42	178.59
30	24.33	51.45	82.50	116. 9	148.45	180. 0

Ad latitudinem. loci 16. Graduum.

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	211.15	243.51	277.10	308.15	335.27
1	181. 1	212.18	244.58	278.15	309.13	336.18
2	182. 3	213.22	246. 5	279.20	310.11	337. 9
3	183. 5	214.26	247.12	280.25	311. 9	337.59
4	184. 7	215.30	248.19	281.30	312. 6	338.50
5	185. 9	216.34	249.26	282.35	313. 3	339.40
6	186.11	217.38	250.32	283.39	314. 0	340.30
7	187.13	218.43	251.39	284.43	314.56	341.20
8	188.15	219.47	252.46	285.47	315.52	342.10
9	189.17	220.52	253.53	286.51	316.48	343. 0
10	190.19	221.57	255. 0	287.55	317.44	343.49
11	191.21	223. 1	256. 7	288.58	318.39	344.38
12	192.23	224. 6	257.14	290. 1	319.34	345.27
13	193.25	225.11	258.21	291. 4	320.29	346.16
14	194.27	226.16	259.28	292. 7	321.24	347. 5
15	195.30	227.21	260.35	293. 9	322.19	347.54
16	196.32	228.26	261.42	294.11	323.13	348.43
17	197.35	229.32	262.49	295.13	324. 7	349.32
18	198.37	230.38	263.56	296.15	325. 1	350.20
19	199.40	231.44	265. 3	297.17	325.54	351. 9
20	200.43	232.50	266. 9	298.18	326.47	351.57
21	201.46	233.55	267.16	299.19	327.40	352.46
22	202.49	235. 1	268.22	300.20	328.33	353.34
23	203.52	236. 7	269.29	301.20	329.26	354.23
24	204.55	237.13	270.35	302.20	330.18	355.11
25	205.58	238.19	271.41	303.20	331.10	355.59
26	207. 1	239.25	272.47	304.19	332. 2	356.48
27	208. 4	240.31	273.53	305.18	332.54	357.36
28	209. 8	241.38	274.59	306.17	333.45	358.24
29	210.11	242.44	276. 5	307.16	334.36	359.12
30	211.15	243.51	277.10	308.15	335.27	360. 0

Tab. Aſcenſ. obliqvarum Eclipticæ.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	24.20	51.20	82.22	115.44	148.32
1	0.47	25.11	52.18	83.27	116.51	149.36
2	1.35	26. 2	53.17	84.33	117.58	150.40
3	2.22	26.53	54.16	85.39	119. 5	151.44
4	3.10	27.44	55.15	86.45	120.12	152.48
5	3.58	28.35	56.15	87.51	121.18	153.51
6	4.46	29.27	57.15	88.57	122.25	154.55
7	5.34	30.19	58.15	90. 3	123.31	155.58
8	6.22	31.11	59.15	91.10	124.37	157. 2
9	7.10	32. 3	60.15	92.16	125.43	158. 5
10	7.58	32.56	61.15	93.23	126.49	159. 8
11	8.46	33.49	62.16	94.29	127.56	160.11
12	9.34	34.42	63.17	95.36	129. 2	161.14
13	10.22	35.35	64.19	96.43	130. 8	162.17
14	11.10	36.28	65.21	97.50	131.14	163.20
15	11.59	37.22	66.23	98.57	132.20	164.23
16	12.47	38.16	67.25	100. 4	133.26	165.26
17	13.36	39.10	68.28	101.11	134.31	166.29
18	14.24	40. 5	69.31	102.18	135.36	167.31
19	15.13	41. 0	70.34	103.25	136.41	168.34
20	16. 2	41.55	71.37	104.33	137.46	169.36
21	16.51	42.50	72.41	105.41	138.51	170.39
22	17.40	43.46	73.45	106.48	139.56	171.41
23	18.30	44.42	74.49	107.55	141. 1	172.44
24	19.19	45.38	75.53	109. 2	142. 6	173.46
25	20. 9	46.34	76.57	110. 9	143.11	174.48
26	20.59	47.31	78. 2	111.16	144.16	175.51
27	21.49	48.28	79. 7	112.23	145.20	176.53
28	22.39	49.25	80.12	113.30	146.24	177.56
29	23.29	50.22	81.17	114.37	147.28	178.58
30	24.20	51.20	82.22	115.44	148.32	180. 0

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	211.28	244.16	277.38	308.40	335.40
1	181. 2	212.32	245.23	278.43	309.38	336.31
2	182. 4	213.36	246.30	279.48	310.35	337.21
3	183. 7	214.40	247.37	280.53	311.32	338.11
4	184. 9	215.44	248.44	281.58	312.29	339. 1
5	185.12	216.49	249.51	283. 3	313.26	339.51
6	186.14	217.54	250.58	284. 7	314.22	340.41
7	187.16	218.59	252. 5	285.11	315.18	341.30
8	188.19	220. 4	253.12	286.15	316.14	342.20
9	189.21	221. 9	254.19	287.19	317.10	343. 9
10	190.24	222.14	255.27	288.23	318. 5	343.58
11	191.26	223.19	256.35	289.26	319. 0	344.47
12	192.29	224.24	257.42	290.29	319.55	345.36
13	193.31	225.29	258.49	291.32	320.50	346.24
14	194.34	226.34	259.56	292.35	321.44	347.13
15	195.37	227.40	261. 3	293.37	322.38	348. 1
16	196.40	228.46	262.10	294.39	323.32	348.50
17	197.43	229.52	263.17	295.41	324.25	349.38
18	198.46	230.58	264.24	296.43	325.18	350.26
19	199.49	232. 4	265.31	297.44	326.11	351.14
20	200.52	233.11	266.37	298.45	327. 4	352. 2
21	201.55	234.17	267.44	299.45	327.57	352.50
22	202.58	235.23	268.50	300.45	328.49	353.38
23	204. 2	236.29	269.57	301.45	329.41	354.26
24	205. 5	237.35	271. 3	302.45	330.33	355.14
25	206. 9	238.42	272. 9	303.45	331.25	356. 2
26	207.12	239.48	273.15	304.45	332.16	356.50
27	208.16	240.55	274.21	305.44	333. 7	357.38
28	209.20	242. 2	275.27	306.43	333.58	358.25
29	210.24	243. 9	276.33	307.42	334.49	359.13
30	211.28	244.16	277.38	308.40	335.40	360. 0

Tab. Aſcenſionum obliquarum Eclipt.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	′ °	° ′	° ′	° ′
0	0. 0	24. 7	50.56	81.53	115.20	148.19
1	0.47	24.57	51.54	82.58	116.27	149.24
2	1.34	25.47	52.52	84. 4	117.34	150.28
3	2.21	26.37	53.51	85.10	118.41	151.32
4	3. 8	27.28	54.50	86.16	119.48	152.36
5	3.56	28.19	55.49	87.22	120.55	153.40
6	4.43	29.10	56.48	88.28	122. 2	154.44
7	5.30	30. 2	57.48	89.35	123. 9	155.48
8	6.18	30.54	58.48	90.41	124.15	156.52
9	7. 5	31.46	59.48	91.48	125.22	157.56
10	7.53	32.38	60.48	92.55	126.28	158.59
11	8.40	33.30	61.49	94. 1	127.35	160. 3
12	9.28	34.23	62.50	95. 8	128.41	161. 6
13	10.16	35.16	63.51	96.15	129.48	162.10
14	11. 4	36. 9	64.53	97.22	130.54	163.13
15	11.52	37. 2	65.55	98.29	132. 0	164.16
16	12.40	37.56	66.57	99.37	133. 6	165.19
17	13.28	38.50	68. 0	100.44	134.12	166.22
18	14.16	39.44	69. 3	101.52	135.17	167.25
19	15. 4	40.39	70. 6	102.59	136.23	168.28
20	15.53	41.34	71. 9	104. 6	137.28	169.31
21	16.42	42.29	72.12	105.14	138.34	170.34
22	17.31	43.24	73.16	106.21	139.39	171.37
23	18.20	44.19	74.20	107.29	140.45	172.40
24	19. 9	45.15	75.24	108.36	141.50	173.43
25	19.58	46.11	76.28	109.43	142.55	174.46
26	20.47	47. 7	77.33	110.51	144. 0	175.49
27	21.37	48. 4	78.38	111.58	145. 5	176.52
28	22.27	49. 1	79.43	113. 6	146.10	177.55
29	23.17	49.58	80.48	114.13	147.15	178.58
30	24. 7	50.56	81.53	115.20	148.19	180. 0

		♎	♏	♐	♑	♒	♓
°		° '	° '	° '	° '	° '	° '
0		180. 0	211.41	244.40	278. 7	309. 4	335.53
1		181. 2	212.45	245.47	279.12	310. 2	336.43
2		182. 5	213.50	246.54	280.17	310.59	337.33
3		183. 8	214.55	248. 2	281.22	311.56	338.23
4		184.11	216. 0	249. 9	282.27	312.53	339.13
5		185.14	217. 5	250.17	283.32	313.49	340. 2
6		186.17	218.10	251.24	284.36	314.45	340.51
7		187.20	219.15	252.31	285.40	315.41	341.40
8		188.23	220.21	253.39	286.44	316.36	342.29
9		189.26	221.26	254.46	287.48	317.31	343.18
10		190.29	222.32	255.54	288.51	318.26	344. 7
11		191.32	223.37	257. 1	289.54	319.21	344.56
12		192.35	224.43	258. 8	290.57	320.16	345.44
13		193.38	225.48	259.16	292. 0	321.10	346.32
14		194.41	226.54	260.23	293. 3	322. 4	347.20
15		195.44	228. c	261.31	294. 5	322.58	348. 8
16		196.47	229. 6	262.38	295. 7	323.51	348.56
17		197.50	230.12	263.45	296. 9	324.44	349.44
18		198.54	231.19	264.52	297.10	325.37	350.32
19		199.57	232.25	265.59	298.11	326.30	351.20
20		201. 1	233.32	267. 5	299.12	327.22	352. 7
21		202. 4	234.38	268.12	300.12	328.14	352.55
22		203. 8	235.45	269.19	301.12	329. 6	353.42
23		204.12	236.51	270.25	302.12	329.58	354.30
24		205.16	237.58	271.32	303.12	330.50	355.17
25		206.20	239. 5	272.38	304.11	331.41	356. 4
26		207.24	240.12	273.44	305.10	332.32	356.52
27		208.28	241.19	274.50	306. 9	333.23	357.39
28		209.32	242.26	275.56	307. 8	334.13	358.26
29		210.36	243.33	277. 2	308. 6	335. 3	359.13
30		211 11	244.40	278. 7	309. 4	335.53	360. 0

Tab. Aſcenſion. obliqvarum Eclipticæ.

		♈	♉	♊	♋	♌	♍
°		° ′	° ′	° ′	° ′	° ′	° ′
0		0. 0	23.53	50.31	81.23	114.55	148. 5
1		0.46	24.43	51.29	82.29	116. 3	149.10
2		1.33	25.33	52.27	83.35	117.10	150.15
3		2.20	26.23	53.26	84.41	118.18	151.20
4		3. 7	27.13	54.24	85.47	119.25	152.25
5		3.54	28. 4	55.23	86.53	120.32	153.29
6		4.41	28.55	56.22	87.59	121.39	154.34
7		5.28	29.46	57.22	89. 6	122.46	155.38
8		6.15	30.38	58.21	90.12	123.53	156.42
9		7. 2	31.29	59.21	91.19	125. 0	157.46
10		7.49	32.21	60.21	92.26	126. 6	158.50
11		8.36	33.13	61.22	93.33	127.13	159.54
12		9.23	34. 5	62.23	94.40	128.20	160.58
13		10.10	34.58	63.24	95.47	129.27	162. 2
14		10.57	35.50	64.25	96.54	130.34	163. 6
15		11.45	36.43	65.27	98. 1	131.41	164. 9
16		12.32	37.36	66.29	99. 9	132.47	165.13
17		13.20	38.30	67.32	100.17	133.53	166.17
18		14. 8	39.24	68.34	101.24	134.59	167.20
19		14.56	40.18	69.37	102.32	136. 5	168.24
20		15.44	41.12	70.40	103.39	137.11	169.27
21		16.32	42. 7	71.43	104.47	138.17	170.31
22		17.21	43. 2	72.47	105.55	139.23	171.34
23		18. 9	43.57	73.51	107. 2	140.29	172.38
24		18.58	44.52	74.55	108.10	141.35	173.41
25		19.47	45.48	75.59	109.17	142.40	174.44
26		20.36	46.44	77. 3	110.25	143.45	175.48
27		21.25	47.41	78. 8	111.33	144.50	176.51
28		22.14	48.37	79.13	112.40	145.55	177.54
29		23. 3	49.34	80.18	113.48	147. 0	178.57
30		23.53	50.31	81.23	114.55	148. 5	180. 0

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	211.55	245. 5	278.37	309.29	336. 7
1	181. 3	213. 0	246.12	379.42	310.26	336.57
2	182. 6	214. 5	247.20	280.47	311.23	337.46
3	183. 9	215.10	248.27	281.52	312.19	338.35
4	184.12	216.15	249.35	282.57	313.16	339.24
5	185.16	217.20	250.43	284. 1	314.12	340.13
6	186.19	218.25	251.50	285. 5	315. 8	341. 2
7	187.22	219.31	252.58	286. 9	316. 3	341.51
8	188.26	220.37	254. 5	287.13	316.58	342.39
9	189.29	221.43	255.13	288.17	317.53	343.28
10	190.33	222.49	256.21	289.20	318.48	344.16
11	191.36	223.55	257.28	290.23	319.42	345. 4
12	192.40	225. 1	258.36	291.26	320.36	345.52
13	193.43	226. 7	259.43	292.28	321.30	346.40
14	194.47	227.13	260.51	293.31	322.24	347.28
15	195.51	228.19	261.59	294.33	323.17	348.15
16	196.54	229.26	263. 6	295.35	324.10	349. 3
17	197.58	230.33	264.13	296.36	325. 2	349.50
18	199. 2	231.40	265.20	297.37	325.55	350.37
19	200. 6	232.47	266.27	298.38	326.47	351.24
20	201.10	233.54	267.34	299.39	327.39	352.11
21	202.14	235. 0	268.41	300.39	328.31	352.58
22	203.18	236. 7	269.48	301.39	329.22	353.45
23	204.22	237.14	270.54	302.38	330.14	354.32
24	205.26	238.21	272. 1	303.38	331. 5	355.19
25	206.31	239.28	273. 7	304.37	331.56	356. 6
26	207.35	240.35	274.13	305.36	332.47	356.53
27	208.40	241.42	275.19	306.34	333.37	357.40
28	209.45	242.50	276.25	307.33	334.27	358.27
29	210.50	243.57	277.31	308.31	335.17	359.14
30	211.55	245. 5	278.37	309.29	336. 7	360. 0

Tab. Aſcenſion. obliqvarum. Ecl.

°	♈	♉	♊	♋	♌	♍
	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	23.39	50. 6	80.54	114.30	147.51
1	0.46	24.28	51. 4	81.59	115.38	148.57
2	1.32	25.18	52. 2	83. 5	116.46	150. 2
3	2.19	26. 8	53. 0	84.11	117.54	151. 7
4	3. 5	26.58	53.58	85.17	119. 1	152.12
5	3.52	27.48	54.56	86.23	120. 8	153.17
6	4.38	28.39	55.55	87.29	121.16	154.22
7	5.24	29.30	56.54	88.36	122.23	155.27
8	6.11	30.21	57.54	89.43	123.31	156.32
9	6.57	31.12	58.53	90.50	124.38	157.37
10	7.44	32. 3	59.53	91.57	125.45	158.41
11	8.30	32.55	60.54	93. 4	126.53	159.46
12	9.17	33.47	61.55	94.11	128. 0	160.50
13	10. 4	34.39	62.56	95.18	129. 7	161.54
14	10.51	35.31	63.57	96.25	130.14	162.58
15	11.38	36.23	64.59	97.33	131.21	164. 2
16	12.25	37.16	66. 1	98.40	132.28	165. 6
17	13.12	38.10	67. 3	99.48	133.34	166.10
18	14. 0	39. 3	68. 6	100.55	134.41	167.14
19	14.47	39.57	69. 8	102. 3	135.47	168.18
20	15.35	40.51	70.11	103.11	136.53	169.22
21	16.23	41.45	71.14	104.18	138. 0	170.26
22	17.11	42.40	72.18	105.26	139. 6	171.30
23	17.59	43.34	73.21	106.34	140.12	172.34
24	18.47	44.29	74.25	107.42	141.18	173.38
25	19.35	45.24	75.29	108.50	142.24	174.42
26	20.23	46.20	76.34	109.58	143.30	175.46
27	21.12	47.16	77.39	111. 6	144.35	176.50
28	22. 1	48.13	78.44	112.14	145.41	177.53
29	22.50	49. 9	79.49	113.22	146.46	178.57
30	23.39	50. 6	80.54	114.30	147.51	180. 0

	♎	♏	♐	♑	♒	♓
d	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	212. 9	245.30	279. 6	309.54	336.2
1	181. 3	213.14	246.38	280.11	310.51	337.1
2	182. 7	214.19	247.46	281.16	311.47	337.5
3	183.10	215.25	248.54	282.21	312.44	338.4
4	184.14	216.30	250. 2	283.26	313.40	339.3
5	185.18	217.36	251.10	284.31	314.36	340.2
6	186.22	218.42	252.18	285.35	315.31	341.1
7	187.26	219.48	253.26	286.39	316.26	342.
8	188.30	220.54	254.34	287.42	317.20	342.4
9	189.34	222. 0	255.42	288.46	318.15	343.3
10	190.38	223. 7	256.49	289.49	319. 9	344.2
11	191.42	224.13	257.57	290.52	320. 3	345.1
12	192.46	225.19	259. 5	291.54	320.57	346.
13	193.50	226.26	260.12	292.57	321.50	346.4
14	194.54	227.32	261.20	293.59	322.44	347.3
15	195.58	228.39	262.27	295. 1	323.37	348.2
16	197. 2	229.46	263.35	296. 3	324.29	349.
17	198. 6	230.53	264.42	297. 4	325.21	349.5
18	199.10	232. 0	265.49	298. 5	326.13	350.4
19	200.14	233. 7	266.56	299. 6	327. 5	351.3
20	201.19	234.15	268. 3	300. 7	327.57	352.1
21	202.23	235.22	269.10	301. 7	328.48	353.
22	203.28	236.29	270.17	302. 6	329.39	353.4
23	204.33	237.37	271.24	303. 6	330.30	354.3
24	205.38	238.44	272.31	304. 5	331.21	355.2
25	206.43	239.52	273.37	305. 4	332.12	356.
26	207.48	240.59	274.43	306. 2	333. 2	356.5
27	208.53	242. 7	275.49	307. 0	333.52	357.4
28	209.58	243.14	276.55	307.58	334.42	358.2
29	211. 3	244.22	278. 1	308.56	335.32	359.14
30	212. 9	245.30	279. 6	309.54	336.21	360. 0

Tab. Aſcenſion obliqvarum Ecl.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	23.25	49.41	80.23	114. 5	147.37
1	0.45	24.14	50.38	81.29	115.13	148.43
2	1.31	25. 3	51.36	82.35	116.21	149.49
3	2.17	25.52	52.34	83.41	117.29	150.54
4	3. 3	26.41	53.32	84.47	118.37	152. 0
5	3.49	27.31	54.30	85.55	119.45	153. 5
6	4.35	28.21	55.29	86.59	120.53	154.11
7	5.21	29.11	56.28	88. 6	122. 1	155.16
8	6. 7	30. 2	57.27	89.13	123. 8	156.21
9	6.53	30.53	58.26	90.20	124.16	157.26
10	7.39	31.44	59.26	91.27	125.23	158.31
11	8.25	32.35	60.26	92.34	126.31	159.36
12	9.11	33.26	61.27	93.41	127.38	160.41
13	9.58	34.18	62.28	94.49	128.46	161.46
14	10.34	35.10	63.29	95.56	129.53	162.51
15	11.31	36. 2	64.30	97. 4	131. 0	163.55
16	12.17	36.55	65.32	98.12	132. 7	165. 0
17	13. 4	37.48	66.34	99.20	133.14	166. 4
18	13.51	38.41	67.36	100.28	134.21	167. 9
19	14.38	39.35	68.38	101.36	135.28	168.13
20	15.25	40.29	69.41	102.44	136.34	169.17
21	16.12	41.23	70.44	103.52	137.41	170.22
22	17. 0	42.17	71.47	105. 0	138.48	171.26
23	17.47	43.11	72.51	106. 8	139.54	172.31
24	18.35	44. 6	73.55	107.16	141. 1	173.35
25	19.23	45. 1	74.59	108.24	142. 7	174.39
26	20.11	45.56	76. 3	109.32	143.13	175.44
27	20.59	46.52	77. 8	110.40	144.19	176.48
28	21.48	47.48	78.13	111.48	145.25	177.52
29	22.36	48.44	79.18	112.56	146.31	178.56
30	23.25	49.41	80.23	114. 5	147.37	180. 0

°		♎	♏	♐	♑	♒	♓
		° ′	° ′	° ′	° ′	° ′	° ′
0		180. 0	212.23	245.55	279.37	310.19	336.35
1		181. 4	213.29	247. 4	280.42	311.16	337.24
2		182. 8	214.35	248.12	281.47	312.12	338.12
3		183.12	215.41	249.20	282.52	313. 8	339. 1
4		184.16	216.47	250.28	283.57	314. 4	339.49
5		185.21	217.53	251.36	285. 1	314.59	340.37
6		186.25	218.59	252.44	286. 5	315.54	341.25
7		187.29	220. 6	253.52	287. 9	316.49	342.13
8		188.34	221.12	255. 0	288.13	317.43	343. 0
9		189.38	222.19	256. 8	289.16	318.37	343.48
10		190.43	223.26	257.16	290.19	319.31	344.35
11		191.47	224.32	258.24	291.22	320.25	345.22
12		192.52	225.39	259.32	292.24	321.19	346.9
13		193.56	226.46	260.40	293.26	322.12	346.56
14		195. 0	227.53	261.48	294.28	323. 5	347.43
15		196. 5	229. 0	262.56	295.30	323.58	348.29
16		197. 9	230. 7	264. 4	296.31	324.50	349.16
17		198.14	231.14	265.11	297.32	325.42	350. 2
18		199.19	232.22	266.19	298.33	326.34	350.49
19		200.25	233.29	267.20	299.34	327.25	351.35
20		201.29	234.37	268.33	300.34	328.16	352.21
21		202.34	235.44	269.40	301.34	329. 7	353. 7
22		203.39	236.52	270.47	302.33	329.58	353.53
23		204.44	237.59	271.54	303.32	330.49	354.39
24		205.49	239. 7	273. 1	304.31	331.39	355.25
25		206.55	240.15	274. 7	305.30	332.29	356.11
26		208. 0	241.23	275.13	306.28	333.19	356.57
27		209. 6	242.31	276.19	307.26	334. 8	357.43
28		210.11	243.39	277.25	308.24	334.57	358.29
29		211.17	244.47	278.31	309.22	335.46	359.15
30		212.23	245.55	279.37	310.19	336.35	360. 0

Tabula Aſcenſ. obliqvarum Eclipt.

	♈	♉	♊	♋	♌	♍
	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	23.11	49.15	79.52	113.39	147.23
1	0.45	23.59	50.22	80.58	114.48	148.29
2	1.30	24.48	51. 9	82. 4	115.56	149.35
3	2.16	25.37	52. 6	83.10	117. 4	150.41
4	3. 1	26.26	53. 4	84.16	118.12	151.47
5	3.47	27.15	54. 2	85.23	119.20	152.53
6	4.32	28. 5	55. 0	86.29	120.28	153.59
7	5.18	28.55	55.59	87.36	121.36	155. 5
8	6. 3	29.45	56.58	88.43	122.44	156.11
9	6.49	30.35	57.57	89.50	123.52	157.17
10	7.35	31.26	58.57	90.57	125. 0	158.22
11	8.20	32.17	59.57	92. 4	126. 8	159.28
12	9. 6	33. 8	60.58	93.12	127.16	160.33
13	9.52	33.59	61.59	94.19	128.24	161.38
14	10.38	34.50	63. 0	95.27	129.32	162.43
15	11.24	35.42	64. 1	96.35	130.40	163.48
16	12.10	36.34	65. 3	97.43	131.48	164.53
17	12.56	37.27	66. 5	98.51	132.55	165.58
18	13.43	38.20	67. 7	99.59	134. 2	167. 3
19	14.29	39.13	68. 9	101. 7	135. 9	168. 8
20	15.16	40. 6	69.11	102.15	136.16	169.13
21	16. 3	41. 0	70.14	103.23	137.23	170.18
22	16.50	41.54	71.17	104.31	138.30	171.23
23	17.37	42.48	72.21	105.39	139.37	172.28
24	18.24	43.42	73.25	106.47	140.44	173.33
25	19.11	44.37	74.29	107.56	141.51	174.37
26	19.59	45.32	75.33	109. 5	142.58	175.42
27	20.47	46.27	76.37	110.14	144. 4	176.47
28	21.35	47.23	77.42	111.22	145.11	177.51
29	22.23	48.19	78.47	112.31	146.17	178.56
30	23.11	49.15	79.52	113.39	147.23	180. 0

Ad latitud. loci 22. Graduum.

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	212.37	246.21	280. 8	310.45	336.49
1	181. 4	213.43	247.29	281.13	311.41	337.37
2	182. 9	214.49	248.38	282.18	312.37	338.25
3	183.13	215.56	249.46	283.23	313.33	339.13
4	184.18	217. 2	250.55	284.27	314.28	340. 1
5	185.23	218. 9	252. 4	285.31	315.23	340.49
6	186.27	219.16	253.13	286.35	316.18	341.36
7	187.32	220.23	254.21	287.39	317.12	342.23
8	188.37	221.30	255.29	288.43	318. 6	343.10
9	189.42	222.37	256.37	289.46	319. 0	343.57
10	190.47	223.44	257.45	290.49	319.54	344.44
11	191.52	224.51	258.53	291.51	320.47	345.31
12	192.57	225.58	260. 1	292.53	321.40	346.17
13	194. 2	227. 5	261. 9	293.55	322.33	347. 4
14	195. 7	228.12	262.17	294.57	323.26	347.50
15	196.12	229.20	263.25	295.59	324.18	348.36
16	197.17	230.28	264.33	297. 0	325.10	349.22
17	198.22	231.36	265.41	298. 1	326. 1	350. 8
18	199.27	232.44	266.48	299. 2	326.52	350.54
19	200.32	233.52	267.56	300. 3	327.43	351.40
20	201.38	235. 0	269. 3	301. 3	328.34	352.25
21	202.43	236. 8	270.10	302. 3	329.25	353.11
22	203.49	237.16	271.17	303. 2	330.15	353.57
23	204.55	238.24	272.24	304. 1	331. 5	354.42
24	206. 1	239.32	273.31	305. 0	331.55	355.28
25	207. 7	240.40	274.37	305.58	332.45	356.13
26	208.13	241.48	275.44	306.56	333.34	356.59
27	209.19	242.56	276.50	307.54	334.23	357.44
28	210.25	244. 4	277.56	308.51	335.12	358.30
29	211.31	245.12	279. 2	309.48	336. 1	359.15
30	212.37	246.21	280. 8	310.45	336.49	360. 0

Tabula aſcenſ. obliqvarum Eclipt.

	♈	♉	♊	♋	♌	♍
°	° '	° '	° '	° '	° '	° '
0	0. 0	22.57	48.49	79.22	113.13	147. 9
1	0.44	23.45	49.46	80.28	114.22	148.16
2	1.29	24.33	50.43	81.34	115.31	149.22
3	2.14	25.22	51.40	82.40	116.39	150.29
4	2.59	26.10	52.38	83.46	117.48	151.35
5	3.44	26.59	53.35	84.52	118.56	152.41
6	4.29	27.48	54.33	85.58	120. 5	153.48
7	5.14	28.37	55.31	87. 5	121.13	154.54
8	5.59	29.27	56.30	88.12	122.21	156. 0
9	6.44	30.17	57.29	89.19	123.29	157. 6
10	7.30	31. 7	58.28	90.26	124.37	158.12
11	8.15	31.57	59.28	91.33	125.46	159.18
12	9. 0	32.48	60.28	92.41	126.54	160.24
13	9.46	33.39	61.29	93.49	128. 3	161.30
14	10.31	34.30	62.30	94.57	129.11	162.36
15	11.17	35.21	63.31	96. 5	130.19	163.41
16	12. 2	36.13	64.32	97.13	131.27	164.47
17	12.48	37. 5	65.34	98.21	132.35	165.52
18	13.34	37.57	66.36	99.29	133.42	166.58
19	14.20	38.50	67.38	100.37	134.50	168. 3
20	15. 6	39.43	68.40	101.46	135.57	169. 8
21	15.52	40.36	69.43	102.54	137. 5	170.14
22	16.39	41.30	70.46	104. 3	138.13	171.19
23	17.25	42.24	71.50	105.11	139.20	172.24
24	18.12	43.18	72.54	106.20	140.28	173.29
25	18.59	44.12	73.58	107.29	141.35	174.34
26	19.46	45. 7	75. 2	108.38	142.42	175.40
27	20.34	46. 2	76. 7	109.47	143.49	176.45
28	21.21	46.57	77.12	110.56	144.56	177.50
29	22. 9	47.53	78.17	112. 5	146. 3	178.55
30	22.57	48.49	79.22	113.13	147. 9	180. 0

		♎	♏	♐	♑	♒	♓
o		o /	o /	o /	o /	o /	o /
0		180. 0	212.51	246.47	280.38	311.11	337. 3
1		181. 5	213.57	247.55	281.43	312. 7	337.51
2		182.10	215. 4	249. 4	282.48	313. 3	338.39
3		183.15	216.11	250.13	283.53	313.58	339.26
4		184.20	217.18	251.22	284.58	314.53	340.14
5		185.26	218.25	252.31	286. 2	315.48	341. 1
6		186.31	219.32	253.40	287. 6	316.42	341.48
7		187.36	220.40	254.49	288.10	317.36	342.35
8		188.41	221.47	255.57	289.14	318.30	343.21
9		189.46	222.55	257. 6	290.17	319.24	344. 8
10		190.52	224. 3	258.14	291.20	320.17	344.54
11		191.57	225.10	259.23	292.22	321.10	345.40
12		193. 2	226.18	260.31	293.24	322. 3	346.26
13		194. 8	227.25	261.39	294.26	322.55	347.12
14		195.13	228.33	262.47	295.28	323.47	347.58
15		196.19	229.41	263.55	296.29	324.39	348.43
16		197.24	230.49	265. 3	297.30	325.30	349.29
17		198.30	231.57	266.11	298.31	326.21	350.14
18		199.36	233. 6	267.19	299.32	327.12	351. 0
19		200.42	234.14	268.27	300.32	328. 3	351.45
20		201.48	235.23	269.34	201.32	328.53	352.30
21		202.54	236.31	270.41	302.31	329.43	353.16
22		204. 0	237.39	271.48	303.30	330.33	354. 1
23		205. 6	238.47	272.55	304.29	331.23	354.46
24		206.12	239.55	274. 2	305.27	332.12	355.31
25		207.19	241. 4	275. 8	306.25	333. 1	356.16
26		208.25	242.12	276.14	307.22	333.50	357. 1
27		209.31	243.21	277.20	308.20	334.38	357.46
28		210.38	244.29	278.26	309.17	335.27	358.31
29		211.44	245.38	279.32	310.14	336.15	359.16
30		212.51	246.47	280.38	311.11	337. 3	360. 0

Tab. Aſcenſionum obliqvarum Eclipt.

		♈	♉	♊	♋	♌	♍
°	′	° ′	° ′	° ′	° ′	° ′	° ′
0		0. 0	22.42	48.22	78.50	112.46	146.54
1		0.44	23.30	49.18	79.56	113.55	148. 1
2		1.28	24.18	50.15	81. 2	115. 4	149. 8
3		2.13	25. 6	51.12	82. 8	116.13	150.15
4		2.57	25.54	52. 9	83.14	117.22	151.22
5		3.42	26.42	53. 7	84.20	118.31	152.29
6		4.26	27.31	54. 5	85.27	119.40	153.36
7		5.11	28.20	55. 3	86.34	120.49	154.43
8		5.55	29. 9	56. 1	87.41	121.57	155.49
9		6.40	29.58	57. 0	88.48	123. 6	156.56
10		7.25	30.48	57.59	89.55	124.14	158. 2
11		8. 9	31.38	58.59	91. 2	125.23	159. 9
12		8.54	32.28	59.59	92.10	126.32	160.15
13		9.39	33.18	60.59	93.18	127.41	161.21
14		10.24	34. 9	61.59	94.26	128.50	162.27
15		11. 9	35. 0	63. 0	95.34	129.58	163.33
16		11.54	35.52	64. 1	96.42	131. 6	164.39
17		12.39	36.44	65. 3	97.50	132.14	165.45
18		13.25	37.36	66. 5	98.59	133.22	166.51
19		14.10	38.28	67. 7	100. 8	134.30	167.57
20		14.56	39.20	68. 9	101.16	135.38	169. 3
21		15.42	40.13	69.12	102.25	136.46	170. 9
22		16.28	41. 6	70.15	103.34	137.54	171.15
23		17.14	41.59	71.18	104.43	139. 2	172.21
24		18. 0	42.53	72.22	105.52	140.10	173.27
25		18.47	43.47	73.26	107. 1	141.18	174.32
26		19.34	44.41	74.30	108.10	142.26	175.38
27		20.21	45.36	75.35	109.19	143.33	176.44
28		21. 8	46.31	76.40	110.28	144.40	177.49
29		21.55	47.26	77.45	111.37	145.47	178.55
30		22.42	48.22	78.50	112.46	146.54	180. 0

°	♎ ° '	♏ ° '	♐ ° '	♑ ° '	♒ ° '	♓ ° '
0	180. 0	213. 6	247.14	281.10	311.38	337.18
1	181. 5	214.13	248.23	282.15	312.34	338. 5
2	182.11	215.20	249.32	283.20	313.29	338.52
3	183.16	216.27	250.41	284.25	314.24	339.39
4	184.22	217.34	251.50	285.30	315.19	340.26
5	185.28	218.42	252.59	286.34	316.13	341.13
6	186.33	219.50	254. 8	287.38	317. 7	342. 0
7	187.39	220.58	255.17	288.42	318. 1	342.46
8	188.45	222. 6	256.26	289.45	318.54	343.32
9	189.51	223.14	257.35	290.48	319.47	344.18
10	190.57	224.22	258.44	291.51	320.40	345. 4
11	192. 3	225.30	259.52	292.53	321.32	345.50
12	193. 9	226.38	261. 1	293.55	322.24	346.35
13	194.15	227.46	262.10	294.57	323.16	347.21
14	195.21	228.54	263.18	295.59	324. 8	348. 6
15	196.27	230. 2	264.26	297. 0	325. 0	348.51
16	197.33	231.10	265.34	298. 1	325.51	349.36
17	198.39	232.19	266.42	299. 1	326.42	350.21
18	199.45	233.28	267.50	300. 1	327.32	351. 6
19	200.51	234.37	268.58	301. 1	328.22	351.51
20	201.58	235.46	270. 5	302. 1	329.12	352.35
21	203. 4	236.54	271.12	303. 0	330. 2	353.20
22	204.11	238. 3	272.19	303.59	330.51	354. 5
23	205.17	239.11	273.26	304.58	331.40	354.49
24	206.24	240.20	274.33	305.55	332.29	355.34
25	207.31	241.29	275.40	306.53	333.18	356.18
26	208.38	242.38	276.46	307.51	334. 6	357. 3
27	209.45	243.47	277.52	308.48	334.54	357.47
28	210.52	244.56	278.58	309.45	335.42	358.32
29	211.59	246. 5	280. 4	310.42	336.30	359.16
30	213. 6	247.14	281.10	311.38	337.18	360. 0

°	♈	♉	♊	♋	♌	♍
	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	22.27	47. 54	78.18	112.18	146.39
1	0.43	23.14	48.50	79.24	113.28	147.47
2	1.27	24. 1	49.47	80.30	114.37	148.55
3	2.11	24.49	50.44	81.36	115.47	150. 2
4	2.55	25.36	51.41	82.42	116.56	151.10
5	3.39	26.24	52.38	83.48	118. 5	152.17
6	4.23	27.13	53. 3	84.55	119.15	153.24
7	5. 7	28. 2	54.34	86. 2	120.24	154.31
8	5.51	28.51	55.32	87. 9	121.33	155.38
9	6.35	29.40	56.30	88.16	122.42	156.45
10	7.20	30.29	57.29	89.24	123.51	157.52
11	8. 4	31.19	58.29	90.32	125. 1	158.59
12	8.48	32. 9	59.29	91.40	126.10	160. 6
13	9.33	32.59	60.29	92.48	127.19	161.13
14	10.17	33.49	61.29	93.56	128.28	162.20
15	11. 2	34.39	62.30	95. 4	129.37	163.26
16	11.46	35.30	63.31	96.12	130.46	164.33
17	12.31	36.21	64.32	97.21	131.54	165.39
18	13.16	37.13	65.34	98.29	133. 3	166.46
19	14. 1	38. 5	66.36	99.38	134.11	167.52
20	14.46	38.57	67.38	100.47	135.19	168.58
21	15.31	39.49	68.41	101.56	136.28	170. 5
22	16.17	40.42	69.44	103. 5	137.36	171.11
23	17. 3	41.35	70.47	104.14	138.44	172.17
24	17.49	42.28	71.50	105.23	139.52	173.23
25	18.35	43.21	72.54	106.32	141. 0	174.29
26	19.21	44.15	73.58	107.41	142. 8	175.36
27	20. 7	45. 9	75. 3	108.50	143.16	176.42
28	20.54	46. 4	76. 8	109.59	144.24	177.48
29	21.40	46.59	77.13	111. 8	145.32	178.54
30	22.27	47.54	78.18	112.18	146.39	180. 0

AdLatitudinem loci 25. graduum.

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	213.21	247.42	281.42	312. 6	337.3
1	181. 6	214.28	248.52	282.47	313. 1	338.2
2	182.12	215.36	250. 1	283.52	313.56	339.
3	183.18	216.44	251.10	284.57	314.51	339.5
4	184.24	217.52	252.19	286. 2	315.45	340.3
5	185.31	219. 0	253.28	287. 6	316.39	341.2
6	186.37	220. 8	254.37	288.10	317.32	342.1
7	187.43	221.16	255.46	289.13	318.25	342.5
8	188.49	222.24	256.55	290.16	319.18	343.4
9	189.55	223.32	258. 4	291.19	320.11	344.2
10	191. 2	224.41	259.13	292.22	321. 3	345.1
11	192. 8	225.49	260.22	293.24	321.55	345.5
12	193.14	226.57	261.31	294.26	322.47	346.4
13	194.21	228. 6	262.39	295.28	323.39	347.2
14	195.27	229.14	263.48	296.29	324.30	348.1
15	196.34	230.23	264.56	297.30	325.21	348.5
16	197.40	231.32	266. 4	298.31	326.11	349.4
17	198.47	232.41	267.12	299.31	327. 1	350.2
18	199.54	233.50	268.20	300.31	327.51	351.1
19	201. 1	234.59	269.28	301.31	328.41	351.5
20	202. 8	236. 9	270.36	302.31	329.31	352.4
21	203.15	237.18	271.44	303.30	330.20	353.2
22	204.22	238.27	272.51	304.28	331. 9	354.
23	205.29	239.36	273.58	305.26	331.58	354.5
24	206.36	240.45	274. 5	306.24	332.47	355.3
25	207.43	241.55	276.12	307.22	333.36	356.21
26	208.50	243. 4	277.18	308.19	334.24	357.
27	209.58	244.13	278.24	309.16	335.12	357.4
28	211. 5	245.23	279.30	310.13	335.59	358.3
29	212.13	246.32	280.36	311.10	336.46	359.1
30	213.21	247.42	281.42	312. 6	337.33	360. 0

Tabula aſcenſionum obliqvarum Ecl.

	♈	♉	♊	♋	♌	♍
°	° '	° '	° '	° '	° '	° '
0	0. 0	22.12	47.28	77.45	111.52	146.24
1	0.43	22.59	48.24	78.51	113. 2	147.32
2	1.26	23.46	49.20	79.57	114.12	148.40
3	2.10	24.33	50.16	81. 3	115.21	149.48
4	2.53	25.20	51.12	82. 9	116.31	150.56
5	3.37	26. 7	52. 9	83.16	117.40	152. 4
6	4.20	26.55	53. 6	84.23	118.50	153.12
7	5. 4	27.43	54. 4	85.30	119.59	154.20
8	5.47	28.31	55. 2	86.37	121. 9	155.27
9	6.31	29.20	56. 0	87.44	122.18	156.35
10	7.15	30. 9	56.59	88.52	123.27	157.42
11	7.58	30.58	57.58	90. 0	124.37	158.50
12	8.42	31.47	58.58	91. 8	125.47	159.57
13	9.26	32.37	59.58	92.16	126.56	161. 4
14	10.10	33.27	60.58	93.24	128. 6	162.11
15	10.54	34.17	61.58	94.32	129.15	163.18
16	11.38	35. 8	62.59	95.41	130.24	164.25
17	12.22	35.59	64. 0	96.50	131.33	165.32
18	13. 6	36.50	65. 2	97.59	132.42	166.39
19	13.51	37.41	66. 4	99. 8	133.51	167.46
20	14.36	38.33	67. 6	100.17	134.59	168.53
21	15.21	39.25	68. 9	101.26	136. 8	170. 0
22	16. 6	40.17	69.12	102.35	137.17	171. 7
23	16.51	41.10	70.15	103.44	138.26	172.14
24	17.36	42. 3	71.18	104.53	139.35	173.21
25	18.22	42.56	72.22	106. 3	140.44	174.27
26	19. 8	43.50	73.26	107.12	141.52	175.34
27	19.54	44.44	74.30	108.22	143. 0	176.41
28	20.40	45.38	75.35	109.32	144. 8	177.47
29	21.26	46.33	76.40	110.42	145.16	178.54
30	22.12	47.28	77.45	111.52	146.24	180. 0

Ad latitudinem loci 26. graduum.

		♎	♏	♐	♑	♒	♓
°		° '	° '	° '	° '	° '	° '
0		180. 0	213.36	248. 8	282.15	312.32	337.48
1		181. 6	214.44	249.18	283.20	313.27	338.34
2		182.13	215.52	250.28	284.25	314.22	339.20
3		183.19	217. 0	251.38	285.30	315.16	340. 6
4		184.26	218. 8	252.48	286.34	316.10	340.52
5		185.33	219.16	253.57	287.38	317. 4	341.38
6		186.39	220.25	255. 7	288.42	317.57	342.24
7		187.46	221.34	256.16	289.45	318.50	343. 9
8		188.53	222.43	257.25	290.48	319.43	343.54
9		190. 0	223.52	258.34	291.51	320.35	344.39
10		191. 7	225. 1	259.43	292.54	321.27	345.24
11		192.14	226. 9	260.52	293.56	322.19	346. 9
12		193.21	227.18	262. 1	294.58	323.10	346.54
13		194.28	228.27	263.10	296. 0	324. 1	347.38
14		195.35	229.36	264.19	297. 1	324.52	348.22
15		196.42	230.45	265.28	298. 2	325.43	349. 6
16		197.49	231.54	266.36	299. 2	326.33	349.50
17		198.56	233. 4	267.44	300. 2	327.23	350.34
18		200. 3	234.13	268.52	301. 2	328.13	351.18
19		201.10	235.23	270. 0	302. 2	329. 2	352. 2
20		202.18	236.33	271. 8	303. 1	329.51	352.45
21		203.25	237.42	272.16	304. 0	330.40	353.29
22		204.33	238.51	273.23	304.59	331.29	354.13
23		205.40	240. 1	274.30	305.57	332.17	354.56
24		206.48	241.10	275.37	306.54	333. 5	355.40
25		207.56	242.20	276.44	307.51	333.53	356.23
26		209. 4	243.29	277.51	308.48	334.40	357. 7
27		210.12	244.39	278.57	309.44	335.27	357.50
28		211.20	245.48	280. 3	310.40	336.14	358.34
29		212.28	246.58	281. 9	311.36	337. 1	359.17
30		213.36	248. 8	282.15	312.32	337.48	360. 0

Tab. Aſcenſionum obliqvarum Eclipt.

	♈	♉	♊	♋	♌	♍
°	° '	° '	° '	° '	° '	° '
0	0. 0	21.57	47. 0	77.12	111.24	146. 9
1	0.42	22.43	47.55	78.18	112.34	147.18
2	1.25	23.29	48.51	79.24	113.44	148.26
3	2. 8	24.16	49.47	80.30	114.54	149.35
4	2.51	25. 3	50.43	81.36	116. 4	150.43
5	3.34	25.50	51.40	82.43	117.13	151.51
6	4.17	26.37	52.37	83.50	118.23	153. 0
7	5. 0	27.25	53.34	84.57	119.33	154. 8
8	5.43	28.13	54.32	86. 4	120.43	155.16
9	6.26	29. 1	55.30	87.11	121.53	156.24
10	7. 9	29.49	56.28	88.19	123. 3	157.32
11	7.52	30.37	57.27	89.27	124.13	158.40
12	8.35	31.26	58.26	90.35	125.23	159.48
13	9.19	32.15	59.26	91.43	126.33	160.55
14	10. 2	33. 4	60.26	92.51	127.42	162. 3
15	10.46	33.54	62.26	94. 0	128.52	163.10
16	11.30	34.44	62.27	95. 9	130. 2	164.18
17	12.14	35.35	63.28	96.18	131.11	165.25
18	12.58	36.26	64.29	97.27	132.12	166.33
19	13.42	37.17	65.31	98.36	133.30	167.40
20	14.26	38. 9	66.33	99.46	134.39	168.47
21	15.10	39. 1	67.36	100.55	135.49	169.55
22	15.54	39.53	68.39	102. 5	136.58	171. 2
23	16.39	40.45	69.42	103.14	138. 8	172.10
24	17.24	41.37	70.45	104.24	139.17	173.17
25	18. 9	42.29	71.49	105.34	140.26	174.24
26	18.54	43.22	72.53	106.44	141.35	175.32
27	19.39	44.16	73.57	107.54	142.44	176.39
28	20.25	45.10	75. 2	109. 4	143.52	177.45
29	21.11	46. 5	76. 7	110.14	145. 1	178.53
30	21.57	47. 0	77.12	111.24	146. 9	180. 0

	♎	♏	♐	♑	♒	♓
	° '	° '	° '	° '	° '	° '
0	180. 0	213.51	248.36	282.48	313. 0	338. 3
1	181. 7	214.59	249.46	283.53	313.55	338.49
2	182.14	216. 8	250.56	284.58	314.50	339.35
3	183.21	217.16	252. 6	286. 3	315.44	340.21
4	184.28	218.25	253.16	287. 7	316.38	341. 6
5	185.36	219.34	254.26	288.21	317.31	341.51
6	186.43	220.43	255.36	289.15	318.23	342.36
7	187.50	221.52	256.46	290.18	319.15	343.21
8	188.58	223. 2	257.55	291.21	320. 7	344. 6
9	190. 5	224.11	259. 5	292.24	320.59	344.50
10	191.13	225.21	260.14	293.27	321.51	345.34
11	192.20	226.30	261.24	294.29	322.43	346.18
12	193.27	227.39	262.33	295.31	323.34	347. 2
13	194.35	228.49	263.42	296.32	324.25	347.46
14	195.42	229.58	264.51	297.33	325.16	348.30
15	196.50	231. 8	266. 0	298.34	326. 6	349.14
16	197.57	232.17	267. 9	299.34	326.56	349.58
17	199. 5	233.27	268.17	300.34	327.45	350.41
18	200.12	234.37	269.25	301.34	328.34	351.25
19	201.20	235.47	270.33	302.33	329.23	352. 8
20	202.28	236.57	271.41	303.32	330.11	352.51
21	203.36	238. 7	272.49	304.30	330.59	353.34
22	204.44	239.17	273.56	305.28	331.47	354.17
23	205.52	240.27	275. 3	306.26	332.35	355. 0
24	207. 0	241.37	276.10	307.23	333.23	355.43
25	208. 9	242.47	277.17	308.20	334.10	356.26
26	209.17	243.56	278.24	309.17	334.57	357. 9
27	210.25	245. 6	279.30	310.13	335.44	357.52
28	211.34	246.16	280.36	311. 9	336.31	358.35
29	212.42	247.26	281.42	312. 5	337.17	359.18
30	213.51	248.36	282.48	313. 0	338. 3	360. 0

	♈	♉	♊	♋	♌	♍
°	° '	° '	° '	° '	° '	° '
0	0. 0	21.41	46.31	76.38	110.55	145.53
1	0.42	22.27	47.26	77.44	112. 6	147. 2
2	1.24	23.13	48.21	78.50	113.16	148.11
3	2. 6	23.59	49.17	79.56	114.27	149.20
4	2.48	24.45	50.13	81. 2	115.37	150.29
5	3.31	25.31	51. 9	82. 9	116.47	151.38
6	4.13	26.18	52. 6	83.16	117.58	152.47
7	4.56	27. 5	53. 3	84.23	119. 8	153.56
8	5.38	27.53	54. 0	85.30	120.18	155. 5
9	6.21	28.41	54.58	86.38	121.28	156.13
10	7. 3	29.29	55.56	87.46	122.38	157.21
11	7.46	30.17	56.55	88.54	123.49	158.30
12	8.29	31. 5	57.54	90. 2	124.59	159.38
13	9.12	31.54	58.54	91.10	126.10	160.46
14	9.55	32.43	59.54	92.19	127.20	161.54
15	10.38	33.32	60.54	93.28	128.30	163. 2
16	11.21	34.22	61.55	94.37	129.40	164.10
17	12. 4	35.12	62.56	95.46	130.50	165.18
18	12.48	36. 2	63.57	96.55	132. 0	166.26
19	13.31	36.53	64.58	98. 4	133.10	167.34
20	14.15	37.44	66. 0	99.14	134.19	168.42
21	14.59	38.35	67. 2	100.23	135.29	169.50
22	15.43	39.27	68. 5	101.33	136.39	170.58
23	16.27	40.19	69. 8	102.43	137 48	172. 6
24	17.11	41.11	70.11	103.53	138.58	173.14
25	17.56	42. 3	71.15	105. 3	140. 7	174.21
26	18.41	42.56	72.19	106.13	141.17	175.29
27	19.26	43.49	73.23	107.23	142.26	176.37
28	20.11	44.43	74.28	108.34	143.35	177.45
29	20.56	45.37	75.33	109.44	144.44	178.53
30	21.41	46.31	76.38	110.55	145.53	180. 0

Ad latitudinem. loci 28. Grad.

	♎	♏	♐	♑	♒	♓
	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	214. 7	249. 5	283.22	313.29	338.19
1	181. 7	215.16	250.16	284.27	314.23	339. 4
2	182.15	216.25	251.26	285.32	315.17	339.49
3	183.23	217.34	252.37	286.37	316.11	340.34
4	184.31	218.43	253.47	287.41	317. 4	341.19
5	185.39	219.53	254.57	288.45	317.57	342. 4
6	186.46	221. 2	256. 7	289.49	318.49	342.49
7	187.54	222.12	257.17	290.52	319.41	343.33
8	189. 2	223.21	258.27	291.55	320.33	344.17
9	190.10	224.31	259.37	292.58	321.25	345. 1
10	191.18	225.41	260.46	294. 0	322.16	345.45
11	192.26	226.50	261.56	295. 2	323. 7	346.29
12	193.34	228. 0	263. 5	296. 3	323.58	347.12
13	194.42	229.10	264.14	297. 4	324.48	347.56
14	195.50	230.20	265.23	298. 5	325.38	348.39
15	196.58	231.30	266.32	299. 6	326.28	349.22
16	198. 6	232.40	267.41	300. 6	327.17	350. 5
17	199.14	233.50	268.50	301. 6	328. 6	350.48
18	200.22	235. 1	269.58	302. 6	328.55	351.31
19	201.30	236.11	271. 6	303. 5	329.43	352.14
20	202.38	237.22	272.14	304. 4	330.31	352.57
21	203.47	238.32	273.22	305. 2	331.19	353.39
22	204.55	239.42	274.30	306. 0	332. 7	354.22
23	206. 4	240.52	275.37	306.57	332.55	355. 4
24	207.13	242. 2	276.44	307.54	333.42	355.47
25	208.22	243.13	277.51	308.51	334.39	356.29
26	209.31	244.23	278.58	309.47	335.15	357.12
27	210.40	245.33	280. 4	310.43	336. 1	357.54
28	211.49	246.44	281.10	311.39	336.47	358.36
29	212.58	247.54	282.16	312.34	337.33	359.18
30	214. 7	249. 5	283.22	313.29	338.19	360. 0

Tab. Aſcc ſ. obliqvarum Eclipticæ

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	21.25	46. 2	76. 3	110.26	145.37
1	0.41	22.10	46.57	77. 9	111.37	146.47
2	1.23	22.55	47.52	78.15	112.48	147.57
3	2. 5	23.41	48.47	79.21	113.58	149. 6
4	2.47	24.27	49.43	80.27	115. 9	150.16
5	3.29	25.13	50.39	81.34	116.19	151.25
6	4.11	26. 0	51.35	82.41	117.30	152.34
7	4.53	26.47	52.32	83.48	118.41	153.43
8	5.35	27.34	53.29	84.56	119.51	154.52
9	6.17	28.21	54.26	86. 4	121. 2	156. 1
10	6.59	29. 8	55.24	87.12	122.12	157.10
11	7.41	29.55	56.22	88.20	123.23	158.19
12	8.23	30.43	57.21	89.28	124.34	159.2[illegible]
13	9. 5	31.31	58.20	90.36	125.45	160.37
14	9.47	32.19	59.20	91.45	126.56	161.4[illegible]
15	10.29	33. 8	60.20	92.54	128. 6	162.54
16	11.12	33.57	61.20	94. 3	129.17	164. 3
17	11.55	34.47	62.21	95.12	130.27	165.12
18	12.38	35.37	63.22	96.22	131.38	166.20
19	13.21	36.27	64.24	97.32	132.48	167.29
20	14. 4	37.18	65.26	98.42	133.58	168.37
21	14.47	38. 9	66.28	99.52	135. 9	169.36
22	15.31	39. 0	67.31	101. 2	136.19	170.54
23	16.15	39.51	68.34	102.12	137.29	172. 3
24	16.59	40.43	69.37	103.22	138.39	173.11
25	17.43	41.35	70.40	104.32	139.49	174.19
26	18.27	42.28	71.44	105.43	140.59	175.28
27	19.11	43.21	72.48	106.54	142. 9	176.36
28	19.55	44.14	73.53	108. 4	143.18	177.44
29	20.40	45. 8	74.58	109.15	144.28	178.52
30	21.25	46. 2	76. 3	110.26	145.37	180. 0

Ad latitudinem loci 29. graduum.

°	♎ ° ′	♏ ° ′	♐ ° ′	♑ ° ′	♒ ° ′	♓ ° ′
0	180. 0	214.23	249.34	283.57	313.58	338.35
1	181. 8	215.32	250.45	285. 2	314.52	339.20
2	182.16	216.42	251.56	286. 7	315.46	340. 5
3	183.24	217.51	253. 6	287.12	316.39	340.49
4	184.32	219. 1	254.17	288.16	317.32	341.33
5	185.41	220.11	255.28	289.20	318.25	342.17
6	186.49	221.21	256.38	290.23	319.17	343. 1
7	187.57	222.31	257.48	291.26	320. 9	343.45
8	189. 6	223.41	258.58	292.29	321. 0	344.29
9	190.14	224.51	260. 8	293.32	321.51	345.13
10	191.23	226. 2	261.18	294.34	322.42	345.56
11	192.31	227.12	262.28	295.36	323.33	346.39
12	193.40	228.22	263.38	296.38	324.23	347.22
13	194.48	229.33	264.48	297.39	325.13	348. 5
14	195.57	230.43	265.57	298.40	326. 3	348.48
15	197. 6	231.54	267. 6	299.40	326.52	349.31
16	198.14	233. 4	268.15	300.40	327.41	350.13
17	199.23	234.15	269.24	301.40	328.29	350.55
18	200.32	235.26	270.32	302.39	329.17	351.37
19	201.41	236.37	271.40	303.38	330. 5	352.19
20	202.50	237.48	272.48	304.36	330.52	353. 1
21	203.59	238.58	273.56	305.34	331.39	353.43
22	205. 8	240. 9	275. 4	306.31	332.26	354.25
23	206.17	241.19	276.12	307.28	333.13	355. 7
24	207.26	242.30	277.19	308.25	334. 0	355.49
25	208.35	243.41	278.26	309.21	334.47	356.31
26	209.44	244.51	279.33	310.17	335.33	357.13
27	210.54	246. 2	280.39	311.13	336.19	357.55
28	212. 3	247.12	281.45	312. 8	337. 5	358.37
29	213.13	248.23	282.51	313. 3	337.50	359.19
30	214.23	249.34	283.57	313.58	338.35	360. 0

Tab. Aſcenſion. obliqvarum Eclipt.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	21. 9	45.32	75.28	109.56	145.21
1	0.41	21.54	46.27	76.34	111. 7	146.31
2	1.22	22.39	47.22	77.40	112.18	147.41
3	2. 3	23.24	48.17	78.46	113.29	148.51
4	2.44	24. 9	49.12	79.52	114.40	150. 1
5	3.26	24.54	50. 7	80.59	115.51	151.11
6	4. 7	25.40	51. 3	82. 6	117. 2	152.21
7	4.48	26.26	52. 0	83.13	118.13	153.31
8	5.30	27.13	52.57	84.21	119.24	154.41
9	6.11	28. 0	53.54	85.29	120.35	155.51
10	6.53	28.47	54.51	86.37	121.47	157. 1
11	7.34	29.34	55.50	87.45	122.58	158.10
12	8.16	30.21	56.49	88.53	124. 9	159.19
13	8.58	31. 9	57.48	90. 2	125.21	160.28
14	9.40	31.57	58.47	91.11	126.32	161.37
15	10.22	32.45	59.47	92.20	127.43	162.46
16	11. 4	33.34	60.47	93.29	128.54	163.55
17	11.46	34.23	61.48	94.39	130. 5	165. 4
18	12.28	35.13	62.49	95.49	131.16	166.13
19	13.11	36. 3	63.50	96.59	132.27	167.22
20	13.54	36.53	64.51	98. 9	133.37	168.31
21	14.37	37.43	65.53	99.19	134.48	169.40
22	15.20	38.34	66.56	100.29	135.59	170.49
23	16. 3	39.25	67.59	101.40	137. 9	171.58
24	16.46	40.16	69. 2	102.50	138.20	173. 7
25	17.29	41. 8	70. 5	104. 1	139.30	174.16
26	18.13	42. 0	71. 9	105.12	140.41	175.25
27	18.57	42.53	72.15	106.23	141.51	176.34
28	19.41	43.46	73.18	107.34	143. 1	177.43
29	20.25	44.39	74.23	108.45	144.11	178.52
30	21. 9	45.32	75.28	109.56	145.21	180. 0

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	214.39	250. 4	284.32	314.28	338.51
1	181. 8	215.49	251.15	285.37	315.21	339.35
2	182.17	216.59	252.26	286.42	316.14	340.19
3	183.26	218. 9	253.37	287.47	317. 7	341. 3
4	184.35	219.19	254.48	288.51	318. 0	341.47
5	185.44	220.30	255.59	289.55	318.52	342.31
6	186.53	221.40	257.10	290.58	319.44	343.14
7	188. 2	222.51	258.20	292. 1	320.35	343.57
8	189.11	224. 1	259.31	293. 4	321.26	344.40
9	190.20	225.12	260.41	294. 7	322.17	345.23
10	191.29	226.23	261.51	295. 9	323. 7	346. 6
11	192.38	227.33	263. 1	296.10	323.57	346.49
12	193.47	228.44	264.11	297.11	324.47	347.32
13	194.56	229.55	265.21	298.12	325.37	348.14
14	196. 5	231. 6	266.31	299.13	326.26	348.56
15	197.14	232.17	267.40	300.13	327.15	349.38
16	198.23	233.28	268.49	301.13	328. 3	350.20
17	199.32	234.39	269.58	302.12	328.51	351. 2
18	200.41	235.51	271. 7	303.11	329.39	351.44
19	201.50	237. 2	272.15	304.10	330.26	352.26
20	202.59	238.13	273.23	305. 9	331.13	353. 7
21	204. 9	239.25	274.31	306. 6	332. 0	353.49
22	205.19	240.36	275.39	307. 3	332.47	354.30
23	206.29	241.47	276.47	308. 0	333.34	355.12
24	207.39	242.58	277.54	308.57	334.20	355.53
25	208.49	244. 9	279. 1	309.53	335. 6	356.34
26	209.59	245.20	280. 8	310.48	335.51	357.16
27	211. 9	246.31	281.14	311.43	336.36	357.57
28	212.19	247.42	282.20	312.38	337.21	358.38
29	213.29	248.53	283.26	313.33	338. 6	359.19
30	214.39	250. 4	284.32	314.28	338.51	360. 0

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	20.53	45. 2	74.51	109.26	145. 5
1	0.40	21.37	45.56	75.56	110.37	146.16
2	1.22	22.21	46.50	77. 2	111.48	147.26
3	2. 1	23. 5	47.45	78. 8	113. 0	148.37
4	2.42	23.50	48.40	79.15	114.11	149.47
5	3.23	24.35	49.35	80.22	115.23	150.57
6	4. 4	25.20	50.31	81.29	116.34	152. 8
7	4.45	26. 6	51.27	82.37	117.45	153.18
8	5.26	26.52	52.24	83.45	118.57	154.28
9	6. 7	27.38	53.21	84.53	120. 8	155.38
10	6.48	28.25	54.18	86. 1	121.20	156.48
11	7.29	29.12	55.16	87.10	122.31	157.58
12	8.10	29.59	56.14	88.19	123.43	159. 8
13	8.51	30.46	57.13	89.28	124.55	160.18
14	9.32	31.33	58.12	90.37	126. 7	161.28
15	10.14	32.21	59.12	91.46	127.19	162.38
16	10.55	33. 9	60.12	92.56	128.31	163.48
17	11.37	33.58	61.12	94. 6	129.42	164.58
18	12.18	34.47	62.13	95.16	130.53	166. 7
19	13. 0	35.36	63.14	96.26	132. 4	167.17
20	13.42	36.26	64.15	97.36	133.15	168.26
21	14.24	37.16	65.17	98.46	134.27	169.36
22	15. 7	38. 6	66.19	99.57	135.38	170.45
23	15.49	38.57	67.22	101. 7	136.49	171.55
24	16.32	39.48	68.25	102.18	138. 0	173. 4
25	17.15	40.39	69.28	103.29	139.11	174.13
26	17.58	41.31	70.32	104.40	140.22	175.23
27	18.42	42.23	71.36	105.51	141.33	176.32
28	19.25	43.16	72.41	107. 3	142.44	177.42
29	20. 9	44. 9	73.46	108.14	143.55	178.51
30	20.53	45. 2	74. 5	109.26	145.51	180. 0

		♎	♏	♐	♑	♒	♓
°		° ′	° ′	° ′	° ′	° ′	°
0		180. 0	214.55	250.34	285. 9	314.58	339.
1		181. 9	216. 5	251.46	286.14	315.51	339.5
2		182.18	217.16	252.57	287.19	316.44	340.3
3		183.28	218.27	254. 9	288.24	317.37	341.1
4		184.37	219.38	255.20	289.28	318.29	342.
5		185.47	220.49	256.31	290.32	319.21	342.4
6		186.56	222. 0	257.42	291.35	320.12	343.2
7		188. 5	223.11	258.53	292.38	321. 3	344.1
8		189.15	224.22	260. 3	293.41	321.54	344.5
9		190.24	225.33	261.14	294.43	322.44	345.3
10		191.34	226.45	262.24	295.45	323.34	346.1
11		192.43	227.56	263.34	296.46	324.24	347.
12		193.53	229. 7	264.44	297.47	325.13	347.4
13		195. 2	230.18	265.54	298.48	326. 2	348.2
14		196.12	231.29	267. 4	299.48	326.51	349.
15		197.22	232.41	268.14	300.48	327.39	349.4
16		198.32	233.53	269.23	301.48	328.27	350.2
17		199.42	235. 5	270.32	302.47	329.14	351.
18		200.52	236.17	271.41	303.46	330. 1	351.5
19		202. 2	237.29	272.50	304.44	330.48	352.3
20		203.12	238.40	273.59	305.42	331.35	353.1
21		204.22	239.52	275. 7	306.39	332.22	353.5
22		205.32	241. 3	276.15	307.36	333. 8	354.34
23		206.42	242.15	277.23	308.33	333.54	355.15
24		207.52	243.26	278.31	309.29	334.40	355.56
25		209. 3	244.37	279.38	310.25	335.25	356.37
26		210.13	245.49	280.45	311.20	336.10	357.18
27		211.23	247. 0	281.52	312.15	336.55	357.59
28		212.34	248.12	282.58	313.10	337.39	358.39
29		213.44	249.23	284. 4	314. 4	338.23	359.20
30		214.55	250.34	285. 9	314.58	339. 7	360. 0

Tabula Aſcenſionum obliqvarum. Ecl.

	♈	♉	♊	♋	♌	♍
g	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	20.36	44.31	74.14	108.55	144.48
1	0.40	21.20	45.25	75.39	110. 6	145.59
2	1.20	22. 4	46.19	76.25	111.18	147.10
3	2. 0	22.48	47.13	77.31	112.30	148.21
4	2.40	23.32	48. 7	78.38	113.42	149.32
5	3.20	24.16	49. 2	79.45	114.54	150.43
6	4. 0	25. 1	49.58	80.53	116. 5	151.54
7	4.40	25.46	50.54	82. 1	117.17	153. 5
8	5.21	26.31	51.50	83. 9	118.29	154.16
9	6. 1	27.17	52.46	84.17	119.41	155.27
10	6.42	28. 3	53.43	85.25	120.53	156.37
11	7.22	28.49	54.40	86.34	122. 5	157.48
12	8. 3	29.36	55.38	87.43	123.17	158.58
13	8.43	30.22	56.37	88.52	124.30	160. 9
14	9.24	31. 9	57.36	90. 1	125.42	161.19
15	10. 5	31.56	58.36	91.10	126.54	162.29
16	10.46	32.44	59.36	92.20	128. 6	163.40
17	11.27	33.33	60.36	93.30	129.18	164.50
18	12. 8	34.21	61.37	94.40	130.30	166. 0
19	12.49	35.10	62.38	95.50	131.42	167.10
20	13.31	35.59	63.39	97. 1	132.53	168.20
21	14.13	36.49	64.41	98.12	134. 5	169.30
22	14.55	37.39	65.43	99.23	135.17	170.40
23	15.37	38.29	66.45	100.34	136.29	171.50
24	16.19	39.19	67.48	101.45	137.41	173. 0
25	17. 1	40.10	68.51	102.56	138.52	174.10
26	17.44	41. 2	69.55	104. 7	140. 4	175.20
27	18.27	41.54	70.59	105.19	141.15	176.30
28	19.10	42.46	72. 4	106.31	142.26	177.40
29	19.53	43.38	73. 9	107.43	143.37	178.50
30	20.36	44.31	74.14	108.55	144.48	180. 0

ad latitudinem. loci 32. Graduum.

°	♎ ° ′	♏ ° ′	♐ ° ′	♑ ° ′	♒ ° ′	♓ ° ′
0	180. 0	215.12	251. 5	285.46	315.29	339.24
1	181.10	216.23	252 17	286.51	316.22	340. 7
2	182.20	217.34	253 29	287.56	317.14	340.50
3	183.30	218.45	254.41	289. 1	318. 6	341.33
4	184.40	219.56	255.53	290. 5	318.58	342.16
5	185.50	221. 8	257. 4	291. 9	319 50	342.59
6	187. 0	222.19	258.15	292.12	320.41	343.41
7	188.10	223.31	259.26	293.15	321.31	344.23
8	189.20	224.43	260.37	294.17	322.21	345. 5
9	190.30	225.55	261.48	295.19	323.11	345.47
10	191.40	227. 7	262.59	296.21	324. 1	346.29
11	192.50	228.18	264.10	297.22	324.50	347.11
12	194. 0	229.30	265.20	298.23	325.39	347.52
13	195.10	230.42	266.30	299.24	326.27	348.33
14	196.20	231.54	267.40	300.24	327.16	349.14
15	197.31	233. 6	268.50	301.24	328. 4	349.55
16	198.41	234.18	269.59	302.24	328.51	350.36
17	199.51	235.30	271. 8	303.23	329.38	351.17
18	201. 2	236.43	272.17	304.22	330.24	351.57
19	202.12	237.55	273.26	305.20	331.11	352.38
20	203.23	239. 7	274.35	306.17	331.57	353.18
21	204.33	240.19	275.43	307.14	332.43	353.59
22	205.44	241.31	276.51	308.10	333.29	354.39
23	206.55	242.43	277.59	309. 6	334.14	355.20
24	208. 6	243.55	279. 7	310. 2	334.59	356. 0
25	209.17	245. 6	280.15	310.58	335.44	356.40
26	210.28	246.18	281.22	311.53	336.28	357.20
27	211.39	247.30	282.29	312.47	337.12	358. 0
28	212.50	248.42	283.35	313.41	337.56	358.40
29	214. 1	249.54	284.41	314.35	338.40	359.20
30	215.12	251. 5	285.46	315.29	339.24	360. 0

Tabula aſcenſ. obliqvarum Eclipt.

	♈	♉	♊	♋	♌	♍
°	° '	° '	° '	° '	° '	° '
0	0. 0	20.18	43.59	73.36	108.23	144.30
1	0.39	21. 1	44.52	74.42	109.35	145.42
2	1.18	21.44	45.45	75.48	110.47	146.54
3	1.58	22.27	46.39	76.54	111.59	148. 5
4	2.37	23.11	47.33	78. 0	113.11	149.17
5	3.17	23.55	48.28	79. 7	114.24	150.28
6	3.56	24.40	49.23	80.15	115.36	151.40
7	4.36	25.25	50.19	81.23	116.48	152.51
8	5.16	26.10	51.15	82.31	118. 1	154. 3
9	5.56	26.55	52.11	83.39	119.13	155.14
10	6.36	27.40	53. 8	84.47	120.26	156.25
11	7.16	28.26	54. 5	85.56	121.38	157.36
12	7.56	29.12	55. 3	87. 5	122.51	158.47
13	8.36	29.58	56. 1	88.14	124. 3	159.58
14	9.16	30.44	57. 0	89.23	125.16	161. 9
15	9.56	31.31	57.59	90.33	126.29	162.20
16	10.36	32.18	58.59	91.43	127.42	163.31
17	11.17	33. 6	59.59	92.53	128.54	164.42
18	11.57	33.54	60.59	94. 4	130. 6	165.53
19	12.38	34.43	62. 0	95.15	131.18	167. 4
20	13.19	35.3[illegible]	63. 1	96.26	132.30	168.14
21	14. 0	36.21	64. 3	97.37	133.43	169.25
22	14.41	37.10	65. 5	98.48	134.55	170.36
23	15.22	38. 0	66. 7	99.59	136. 7	171.46
24	16. 4	38.50	67.10	101.10	137.19	172.57
25	16.46	39.40	68.13	102.22	138.31	174. 7
26	17.28	40.31	69.17	103.34	139.43	175.18
27	18.10	41.22	70.21	104.46	140.55	176.29
28	18.52	42.14	71.26	105.58	142. 7	177.39
29	19.35	43. 6	72.31	107.10	143.19	178.50
30	20.18	43.59	73.36	08.23	144.30	180. 0

		♎	♏	♐	♑	♒	♓
o		o ′	o ′	o ′	o ′	o ′	o ′
0		180. 0	215.30	251.37	286.24	316. 1	339.42
1		181.10	216.41	252.50	287.29	316.54	340.25
2		182.21	217.53	254. 2	288.34	317.46	341. 8
3		183.31	219. 5	255.14	289.39	318.38	341.50
4		184.42	220.17	256.26	290.43	319.29	342.32
5		185.53	221.29	257.38	291.47	320.20	343.14
6		187. 3	222.41	258.50	292.50	321.10	343.56
7		188.14	223.53	260. 1	293.53	322. 0	344.38
8		189.24	225. 5	261.12	294.55	322.50	345.19
9		190.35	226.17	262.23	295.57	323.39	346. 0
10		191.46	227.30	263.34	296.59	324.28	346.41
11		192.56	228.42	264.45	298. 0	325.17	347.22
12		194. 7	229.54	265.55	299. 1	326. 6	348. 3
13		195.18	231. 6	267. 7	300. 1	326.54	348.43
14		196.29	232.18	268.17	301. 1	327.12	349.24
15		197.40	233.31	269.27	302. 1	328.29	350. 4
16		198.51	234.44	270.37	303. 0	329.16	350.44
17		200. 2	235.57	271.46	303.59	330. 2	351.24
18		201.13	237. 9	272.55	304.57	330.48	352. 4
19		202.24	238.22	274. 4	305.55	331.34	352.44
20		203.35	239.34	275.13	306.52	332.20	353.24
21		204.46	240.47	276.21	307.49	333. 5	354. 4
22		205.57	241.59	277.29	308.45	333.50	354.44
23		207. 9	243.12	278.37	309.41	334.35	355.24
24		208.20	244.24	279.45	310.37	335.20	356. 4
25		209.32	245.36	280.53	311.32	336. 5	356.43
26		210.43	246.49	282. 0	312.27	336.49	357.23
27		211.55	248. 1	283. 6	313.21	337.33	358. 2
28		213. 6	249.13	284.12	314.15	338.16	358.42
29		214.18	250.25	285.18	315. 8	338.59	359.21
30		215.30	251.37	286.24	316. 1	339.42	360. 0

°	♈	♉	♊	♋	♌	♍
	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	20. 1	43.26	72.57	107.50	144.13
1	0.38	20.43	44.19	74. 3	109. 2	145.26
2	1.17	21.26	45.12	75. 9	110.15	146.38
3	1.56	22. 9	46. 6	76.15	111.27	147.50
4	2.35	22.52	47. 0	77.21	112.40	149. 2
5	3.14	23.35	47.54	78.28	113.53	150.14
6	3.53	24.19	48.49	79.36	115. 5	151.26
7	4.32	25. 3	49.44	80.44	116.18	152.38
8	5.11	25.47	50.40	81.52	117.31	153.50
9	5.50	26.32	51.36	83. 0	118.44	155. 2
10	6.30	27.17	52.32	84. 9	119.57	156.13
11	7. 9	28. 2	53.29	85.18	121.10	157.25
12	7.48	28.47	54.26	86.27	122.23	158.37
13	8.28	29.33	55.24	87.37	123.37	159.48
14	9. 7	30.10	56.23	88.46	124.50	161. 0
15	9.47	31. 5	57.22	89.56	126. 3	162.11
16	10.27	31.52	58.21	91. 6	127.16	163.23
17	11. 7	32.39	59.21	92.17	128.29	164.34
18	11.47	33.27	60.21	93.28	129.42	165.46
19	12.27	34.15	61.22	94.39	130.55	166.57
20	13. 7	35. 3	62.23	95.50	132. 7	168. 8
21	13.48	35.52	63.24	97. 1	133.20	169.20
22	14.29	36.41	64.26	98.13	134.33	170.31
23	15.10	37.30	65.28	99.24	135.46	171.42
24	15.51	38.19	66.31	100.36	136.59	172.53
25	16.32	39. 9	67.34	101.48	138.11	174. 4
26	17.13	40. 0	68.38	103. 0	139.24	175.16
27	17.55	40.51	69.42	104.12	140.36	176.27
28	18.37	41.42	70.47	105.25	141.49	177.38
29	19.19	42.34	71.52	106.37	143. 1	178.49
30	20. 1	43.26	72.57	107.50	144.13	180. 0

ad Latitudinem. Loci 34. Graduum.

°	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	215.47	252.10	287. 3	316.34	339.59
1	181.11	216.59	253.23	288. 8	317.26	340.41
2	182.22	218.11	254.35	289.13	318.18	341.23
3	183.33	219.24	255.48	290.18	319. 9	342. 5
4	184.44	220.36	257. 0	291.22	320. 0	342.47
5	185.56	221.49	258.12	292.26	320.51	343.28
6	187. 7	223. 1	259.24	293.29	321.41	344. 9
7	188.18	224.14	260.36	294.32	322.30	344.50
8	189.29	225.27	261.47	295.34	323.19	345.31
9	190.40	226.40	262.59	296.36	324. 8	346.12
10	191.52	227.53	264.10	297.37	324.57	346.53
11	193. 3	229. 5	265.21	298.38	325.45	347.33
12	194.14	230.18	266.32	299.39	326.33	348.13
13	195.26	231.31	267.43	300.39	327.21	348.53
14	196.37	232.44	268.54	301.39	328. 8	349.33
15	197.49	233.57	270. 4	302.38	328.55	350.13
16	199. 0	235.10	271.14	303.37	329.41	350.53
17	200.12	236.23	272.23	304.36	330.27	351.32
18	201.23	237.37	273.33	305.34	331.13	352.12
19	202.35	238.50	274.42	306.31	331.58	352.51
20	203.47	240. 3	275.51	307.28	332.43	353.30
21	204.58	241.16	277. 0	308.24	333.28	354.10
22	206.10	242.29	278. 8	309.20	334.13	354.49
23	207.22	243.42	279.16	310.16	334.57	355.28
24	208.34	244.55	280.24	311.11	335.41	356. 7
25	209.46	246. 7	281.32	312. 6	336.25	356.46
26	210.58	247.20	282.39	313. 0	337. 8	357.25
27	212.10	248.33	283.45	313.54	337.51	358. 4
28	213.22	249.45	284.51	314.48	338.34	358.43
29	214.34	250.58	285.57	315.41	339.17	359.22
30	215.47	252.10	287. 3	316.34	339.59	360. 0

Tabula aſcenſionum obliqvarum Ecl.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	19.43	42.52	72.16	107.16	143.55
1	0.38	20.25	43.44	73.22	108.29	145. 8
2	1.16	21. 7	44.37	74.28	109.42	146.21
3	1.54	21.49	45.30	75.34	110.55	147.33
4	2.32	22.31	46.24	76.41	112. 8	148.46
5	3.11	23.14	47.18	77.48	113.22	149.58
6	3.49	23.57	48.13	78.56	114.35	151.11
7	4.28	24.40	49. 8	80. 4	115.48	152.24
8	5. 6	25.24	50. 3	81.12	117. 1	153.36
9	5.45	26. 8	50.59	82.20	118.14	154.49
10	6.24	26.53	51.55	83.29	119.28	156. 1
11	7. 2	27.38	52.52	84.38	120.41	157.14
12	7.41	28.23	53.49	85.48	121.55	158.26
13	8.20	29. 8	54.47	86.57	123. 9	159.38
14	8.59	29.53	55.45	88. 7	124.23	160.50
15	9.38	30.39	56.43	89.17	125.37	162. 2
16	10.17	31.25	57.42	90.28	126.51	163.14
17	10.56	32.12	58.41	91.39	128. 4	164.26
18	11.36	32.59	59.41	92.50	129.17	165.38
19	12.15	33.46	60.42	94. 1	130.30	166.50
20	12.55	34.34	61.43	95.13	131.43	168. 2
21	13.35	35.22	62.45	96.24	132.57	169.14
22	14.15	36.10	63.47	97.36	134.10	170.26
23	14.55	36.59	64.49	98.48	135.24	171.38
24	15.35	37.48	65.51	100. 0	136.37	172.50
25	16.16	38.38	66.54	101.12	137.50	174. 1
26	16.57	39.28	67.57	102.24	139. 3	175.13
27	17.38	40.18	69. 1	103.37	140.16	176.25
28	18.19	41. 9	70. 5	104.50	141.29	177.37
29	19. 1	42. 0	71.10	106. 3	142.42	178.49
30	19.43	42.52	72.16	107.16	143.55	180. 0

Ad latitudinem loci 35. graduum.

	♎	♏	♐	♑	♒	♓
o	o /	o /	o /	o /	o /	o /
0	180. 0	216. 5	252.44	287.44	317. 8	340.17
1	181.11	217.18	253.57	288.50	318. 0	340.59
2	182.23	218.31	255.10	289.55	318.51	341.41
3	183.35	219.44	256.23	290.59	319.42	342.22
4	184.47	220.57	257.36	292. 3	320.32	343. 3
5	185.59	222.10	258.48	293. 6	321.22	343.44
6	187.10	223.23	260. 0	294. 9	322.12	344.25
7	188.22	224.36	261.12	295.11	323. 1	345. 5
8	189.34	225.50	262.24	296.13	323.50	345.45
9	190.46	227. 3	263.36	297.15	324.38	346.25
10	191.58	228.17	264.47	298.17	325.26	347. 5
11	193.10	229.30	265.59	299.18	326.14	347.45
12	194.22	230.43	267.10	300.19	327. 1	348.24
13	195.34	231.56	268.21	301.19	327.48	349. 4
14	196.46	233. 9	269.32	302.18	328.35	349.43
15	197.58	234.23	270.43	303.17	329.21	350.22
16	199.10	235.37	271.53	304.15	330. 7	351. 1
17	200.22	236.51	273. 3	305.13	330.52	351.40
18	201.34	238. 5	274.12	306.11	331.37	352.19
19	202.46	239.19	275.22	307. 8	332.22	352.58
20	203.59	240.32	276.31	308. 5	333. 7	353.36
21	205.11	241.46	277.40	309. 1	333.52	354.15
22	206.24	242.59	278.48	309.57	334.36	354.54
23	207.36	244.12	279.56	310.52	335.20	355.34
24	208.49	245.25	281. 4	311.47	336. 3	356.11
25	210. 2	246.38	282.12	312.42	336.46	356.49
26	211.14	247.52	283.19	313.36	337.29	357.28
27	212.27	249. 5	284.26	314.30	338.11	358. 6
28	213.39	250.18	285.32	315.23	338.53	358.44
29	214.52	251.31	286.38	316.16	339.35	359.22
30	216. 5	252.44	287.44	317. 8	340.17	360. 0

Tab. Aſcenſion. obliqvatum E..l.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	19.24	42.18	71.35	106.42	143.36
1	0.37	20. 5	43.10	72.41	107.55	144.50
2	1.15	20.46	44. 2	73.47	109. 9	146. 3
3	1.52	21.28	44.55	74.53	110.22	147.17
4	2.30	22.10	45.48	76. 0	111.36	148.30
5	3. 8	22.52	46.42	77. 7	112.50	149.43
6	3.46	23.35	47.36	78.15	114. 3	150.57
7	4.24	24.18	48.30	79.23	115.17	152.10
8	5. 2	25. 1	49.25	80.31	116.30	153.23
9	5.40	25.45	50.20	81.40	117.44	154.36
10	6.18	26.29	51.16	82.49	118.58	155.49
11	6.56	27.13	52.12	83.58	120.12	157. 1
12	7.34	27.57	53. 9	85. 8	121.26	158.15
13	8.12	28.41	54. 7	86.18	122.40	159.28
14	8.50	29.26	55. 5	87.28	123.55	160.41
15	9.29	30.11	56. 4	88.38	125. 9	161.53
16	10. 7	30.57	57. 3	89.49	126.23	163. 6
17	10.46	31.43	58. 2	91. 0	127.37	164.19
18	11.25	32.30	59. 2	92.11	128.51	165.31
19	12. 4	33.17	60. 2	93.22	130. 5	166.44
20	12.43	34. 4	61. 3	94.34	131.19	167.56
21	13.22	34.52	62. 4	95.46	132.33	169. 9
22	14. 1	35.40	63. 6	96.58	133.47	170.21
23	14.41	36.28	64. 8	98.10	135. 1	171.34
24	15.21	37.17	65.10	99.23	136.15	172.46
25	16. 1	38. 6	66.13	100.36	137.28	173.58
26	16.41	38.56	67.16	101.49	138.42	175.11
27	17.21	39.46	68.20	103. 2	139.56	176.23
28	18. 2	40.36	69.24	104.15	141. 9	177.36
29	18.43	41.27	70.29	105.28	142.23	178.48
30	19.24	42.18	71.35	106.42	143.36	180. 0

		♎		♏		♐		♑		♒		♓	
o		o	′	o	′	o	′	o	′	o	′	o	′
0		180.	0	216.	24	253.	18	288.	25	317.	42	340.	36
1		181.	12	217.	37	254.	32	289.	31	318.	33	341.	17
2		182.	24	218.	51	255.	45	290.	36	319.	24	341.	58
3		183.	37	220.	4	256.	58	291.	40	320.	14	342.	39
4		184.	49	221.	18	258.	11	292.	44	321.	4	343.	19
5		186.	2	222.	32	259.	24	293.	47	321.	54	343.	59
6		187.	14	223.	45	260.	37	294.	50	322.	43	344.	39
7		188.	26	224.	59	261.	50	295.	52	323.	32	345.	19
8		189.	39	226.	13	263.	2	296.	54	324.	20	345.	59
9		190.	51	227.	27	264.	14	297.	56	325.	8	346.	38
10		192.	4	228.	41	265.	26	298.	57	325.	56	347.	17
11		193.	16	229.	55	266.	38	299.	58	326.	43	347.	56
12		194.	29	231.	9	267.	49	300.	58	327.	30	348.	35
13		195.	41	232.	23	269.	0	301.	58	328.	17	349.	14
14		196.	54	233.	37	270.	11	302.	57	329.	3	349.	53
15		198.	7	234.	51	271.	22	303.	56	329.	49	350.	31
16		199.	19	236.	5	272.	32	304.	55	330.	34	351.	10
17		200.	32	237.	20	273.	42	305.	53	331.	19	351.	48
18		201.	45	238.	34	274.	52	306.	51	332.	3	352.	26
19		202.	58	239.	48	276.	2	307.	48	332.	47	353.	4
20		204.	11	241.	2	277.	11	308.	44	333.	31	353.	42
21		205.	24	242.	16	278.	20	309.	40	334.	15	354.	20
22		206.	37	243.	30	279.	29	310.	35	334.	59	354.	58
23		207.	50	244.	43	280.	37	311.	30	335.	42	355.	36
24		209.	3	245.	57	281.	45	312.	24	336.	25	356.	14
25		210.	17	247.	10	282.	53	313.	18	337.	8	356.	52
26		211.	30	248.	24	284.	0	314.	12	337.	50	357.	30
27		212.	43	249.	38	285.	7	315.	5	338.	32	358.	8
28		213.	57	250.	51	286.	13	315.	58	339.	14	358.	45
29		215.	10	252.	5	287.	19	316.	50	339.	55	359.	23
30		216.	24	253.	18	288.	25	317.	42	340.	36	360.	0

Tab. Aſcenſion. obliqvarum Ecl.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	19. 5	41.42	70.52	106. 6	143.17
1	0.37	19.46	42.34	71.58	107.20	144.31
2	1.14	20.27	43.26	73. 4	108.34	145.45
3	1.51	21. 8	44.18	74.11	109.48	146.59
4	2.28	21.49	45.11	75.18	111. 2	148.13
5	3. 5	22.30	46. 4	76.25	112.16	149.27
6	3.42	23.12	46.58	77.33	113.30	150.41
7	4.19	23.54	47.52	78.41	114.44	151.55
8	4.56	24.37	48.47	79.49	115.59	153. 9
9	5.33	25.20	49.42	80.58	117.13	154.23
10	6.11	26. 3	50.37	82. 7	118.28	155.36
11	6.48	26.46	51.33	83.16	119.42	156.50
12	7.26	27.30	52.30	84.26	120.57	158. 3
13	8. 3	28.14	53.27	85.36	122.11	159.17
14	8.41	28.58	54.25	86.46	123.26	160.30
15	9.19	29.43	55.23	87.57	124.41	161.43
16	9.57	30.28	56.22	89. 8	125.56	162.57
17	10.35	31.14	57.21	90.19	127.10	164.10
18	11.13	32. 0	58.21	91.31	128.25	165.23
19	11.51	32.47	59.21	92.43	129.39	166.36
20	12.30	33.34	60.21	93.55	130.53	167.49
21	13. 9	34.21	61.22	95. 7	132. 8	169. 3
22	13.48	35. 8	62.24	96.19	133.23	170.16
23	14.27	35.56	63.26	97.32	134.37	171.29
24	15. 6	36.44	64.28	98.45	135.52	172.42
25	15.45	37.32	65.31	99.58	137. 6	173.55
26	16.25	38.21	66.34	101.11	138.21	175. 8
27	17. 5	39.10	67.38	102.24	139.35	176.21
28	17.45	40. 0	68.42	103.38	140.49	177.34
29	18.25	40.51	69.47	104.52	142. 3	178.47
30	19. 5	41.42	70.52	106. 6	143.17	180. 0

Ad latitud. loci 37. Grad.

	♎	♏	♐	♑	♒	♓
G	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	216.43	253.54	289. 8	318.18	340.55
1	181.13	217.57	255. 8	290.13	319. 9	341.35
2	182.26	219.11	256.22	291.18	320. 0	342.15
3	183.39	220.25	257.36	292.22	320.50	342.55
4	184.52	221.39	258.49	293.26	321.39	343.35
5	186. 5	222.54	260. 2	294.29	322.28	344.15
6	187.18	224. 8	261.15	295.32	323.16	344.54
7	188.31	225.23	262.28	296.34	324. 4	345.33
8	189.44	226.37	263.41	297.36	324.52	346.12
9	190.57	227.52	264.53	298.38	325.39	346.51
10	192.11	229. 7	266. 5	299.39	326.26	347.30
11	193.24	230.21	267.17	300.39	327.13	348. 9
12	194.37	231.35	268.29	301.39	328. 0	348.47
13	195.50	232.50	269.41	302.39	328.46	349.25
14	197. 3	234. 4	270.52	303.38	329.32	350. 3
15	198.17	235.19	272. 3	304.37	330.17	350.41
16	199.30	236.34	273.14	305.35	331. 2	351.19
17	200.43	[illegible]	274.24	306.33	331.46	351.57
18	201.57	239. 3	275.34	307.30	332.30	352.34
19	203.10	240.18	276.44	308.27	333.14	353.12
20	204.24	241.32	277.53	309.23	333.57	353.49
21	205.37	242.47	279. 2	310.18	334.40	354.27
22	206.51	244. 1	280.11	311.13	335.23	355. 4
23	208. 5	245.16	281.19	312. 8	336. 6	355.41
24	209.19	246.30	282.27	313. 2	336.48	356.18
25	210.33	247.44	283.35	313.56	337.30	356.55
26	211.47	248.58	284.42	314.49	338.11	357.32
27	213. 1	250.12	285.49	315.42	338.52	358. 9
28	214.15	251.26	286.56	316.34	339.33	358.46
29	215.29	252.40	288. 2	317.26	340.14	359.23
30	216.43	253.54	289. 8	318.18	340.55	360. 0

Tab. Aſcenſion. obliqvarum Eclipticæ.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	18.45	41. 6	70. 8	105.30	142.57
1	0.36	19.25	41.57	71.14	106.44	144.12
2	1.12	20. 5	42.48	72.20	107.58	145.27
3	1.49	20.45	43.40	73.27	109.13	146.41
4	2.25	21.26	44.32	74.34	110.27	147.56
5	3. 2	22. 7	45.25	75.41	111.42	149.10
6	3.38	22.49	46.18	76.49	112.56	150.25
7	4.14	23.31	47.12	77.57	114.11	151.40
8	4.51	24.13	48. 6	79. 6	115.26	152.54
9	5.27	24.55	49. 1	80.15	116.41	154. 9
10	6. 4	25.38	49.57	81.24	117.56	155.23
11	6.41	26.21	50.53	82.34	119.11	156.37
12	7.18	27. 4	51.49	83.44	120.27	157.51
13	7.55	27.47	52.46	84.54	121.43	159. 5
14	8.32	28.31	53.43	86. 4	122.58	160.19
15	9. 9	29.15	54.41	87.15	124.13	161.33
16	9.46	30. 0	55.39	88.26	125.28	162.47
17	10.24	30.45	56.38	[illegible]	126.43	164. 1
18	11. 1	31.30	57.37	[illegible]	127.58	165.15
19	11.39	32.16	58.37	92. 2	129.13	166.29
20	12.17	33. 2	59.38	93.15	130.28	167.42
21	12.55	33.48	60.39	94.27	131.43	168.56
22	13.33	34.35	61.40	95.40	132.58	170.10
23	14.11	35.22	62.42	96.53	134.13	171.24
24	14.49	36.10	63.44	98. 6	135.28	172.38
25	15.28	36.58	64.47	99.19	136.43	173.52
26	16. 7	37.47	65.50	100.33	137.58	175. 6
27	16.46	38.36	66.54	101.47	139.13	176.20
28	17.25	39.26	67.58	103. 1	140.28	177.33
29	18. 5	40.16	69. 3	104.15	141.43	178.47
30	18.45	41. 6	70. 8	105.30	142.57	180. 0

		♎	♏	♐	♑	♒	♓
°		° ′	° ′	° ′	° ′	° ′	° ′
0		180. 0	217. 3	254.30	289.52	318.54	341.15
1		181.13	218.17	255.45	290.57	319.44	341.55
2		182.27	219.32	256.59	292. 2	320.34	342.35
3		183.40	220.47	258.13	293. 6	321.24	343.14
4		184.54	222. 2	259.27	294.10	322.13	343.53
5		186. 8	223.17	260.41	295.13	323. 2	344.32
6		187.22	224.32	261.54	296.16	323.50	345.11
7		188.36	225.47	263. 7	297.18	324.38	345.49
8		189.50	227. 2	264.20	298.20	325.25	346.27
9		191. 4	228.17	265.33	299.21	326.12	347. 5
10		192.18	229.32	266.45	300.22	326.58	347.43
11		193.31	230.47	267.58	301.2[illegible]	327.44	348.21
12		194.45	232. 2	269.10	302.23	328.30	348.59
13		195.59	233.17	270.22	303.22	329.15	349.36
14		197.13	234.32	271.34	304.21	330. 0	350.14
15		198.27	235.47	272.45	305.19	330.45	350.51
16		199.41	237. 2	273.56	306.17	331.29	351.28
17		200.55	238.17	275. 6	307.14	332.13	352. 5
18		202. 9	239.33	276.16	308.11	332.56	352.42
19		203.23	240.49	277.26	309. 7	333.39	353.19
20		204.37	242. 4	278.36	310. 3	334.22	353.56
21		205.51	243.19	279.45	310.59	335. 5	354.33
22		207. 6	244.34	280.54	311.54	335.47	355. 9
23		208.20	245.49	282. 3	312.48	336.29	355.46
24		209.35	247. 4	283.11	313.42	337.11	356.22
25		219.50	248.18	284.19	314.35	337.53	356.58
26		212. 4	249.33	285.26	315.28	338.34	357.35
27		213.19	250.47	286.33	316.20	339.15	358.11
28		214.33	252. 2	287.40	317.12	339.5	358.48
29		215.48	253.16	288.46	318. 3	340.35	359.24
30		217. 3	254.30	289.52	318.54	341.15	360. 0

Tab. Aſcenſion. obliquarum Eclipticæ.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	18.25	40.28	69.23	104.52	142.37
1	0.35	19. 4	41.19	70.29	106. 7	143.53
2	1.11	19.44	42.10	71.35	107.22	145. 8
3	1.46	20.24	43. 2	72.42	108.37	146.24
4	2.22	21. 4	43.54	73.49	109.52	147.39
5	2.58	21.44	44.46	74.56	111. 7	148.54
6	3.34	22.25	45.39	76. 4	112.22	150. 9
7	4.10	23. 6	46.32	77.12	113.37	151.24
8	4.46	23.47	47.26	78.21	114.53	152.39
9	5.22	24.29	48.20	79.30	116. 8	153.54
10	5.58	25.11	49.15	80.39	117.24	155. 9
11	6.34	25.53	50.10	81.49	118.39	156.24
12	7.10	26.36	51. 6	82.59	119.55	157.39
13	7.46	27.19	52. 3	84.10	121.11	158.54
14	8.22	28. 2	53. 0	85.21	122.27	160. 9
15	8.59	28.45	53.58	86.32	123.43	161.23
16	9.35	29.29	54.56	87.44	124.59	162.38
17	10.12	30.13	55.55	88.56	126.15	163.53
18	10.49	30.58	56.54	90. 8	127.30	165. 7
19	11.26	31.44	57.53	91.20	128.46	166.22
20	12. 3	32.30	58.53	92.33	130. 1	167.36
21	12.40	33.16	59.54	93.46	131.17	168.51
22	13.18	34. 2	60.55	94.59	132.33	170. 5
23	13.56	34.49	61.57	96.12	133.49	171.20
24	14.34	35.36	62.59	97.26	135. 5	172.34
25	15.12	36.23	64. 2	98.40	136.20	173.48
26	15.50	37.11	65. 5	99.54	137.36	175. 3
27	16.28	37.59	66. 9	101. 8	138.51	176.17
28	17. 7	38.48	67.13	102.22	140. 7	177.32
29	17.46	39.38	68.18	103.37	141.22	178.46
30	18.25	40.28	69.23	104.52	142.37	180. 0

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	217.23	255. 8	290.37	319.32	341.35
1	181.14	218.38	256.23	291.42	320.22	342.14
2	182.28	219.53	257.38	292.47	321.12	342.53
3	183.43	221. 9	258.52	293.51	322. 1	343.32
4	184.57	222.24	260. 6	294.55	322.49	344.10
5	186.12	223.40	261.20	295.58	323.37	344.48
6	187.26	224.55	262.34	297. 1	324.24	345.26
7	188.40	226.11	263.48	298. 3	325.11	346. 4
8	189.55	227.27	265. 1	299. 5	325.58	346.42
9	191. 9	228.43	266.14	300. 6	326.44	347.20
10	192.24	229.59	267.27	301. 7	327.30	347.57
11	193.38	231.14	268.40	302. 7	328.16	348.34
12	194.53	232.30	269.52	303. 6	329. 2	349.11
13	196. 7	233.45	271. 4	304. 5	329.47	349.48
14	197.22	235. 1	272.16	305. 4	330.31	350.25
15	198.37	236.17	273.28	306. 2	331.15	351. 1
16	199.51	237.33	274.39	307. 0	331.58	351.38
17	201. 6	238.49	275.50	307.57	332.41	352.14
18	202.21	240. 5	277. 1	308.54	333.24	352.50
19	203.36	241.21	278.11	309.50	334. 7	353.26
20	204.51	242.36	279.21	310.45	334.49	354. 2
21	206. 6	243.52	280.30	311.40	335.31	354.38
22	207.21	245. 7	281.39	312.34	336.13	355.14
23	208.36	246.23	282.48	313.28	336.54	355.50
24	209.51	247.38	283.56	314.21	337.35	356.26
25	211. 6	248.53	285. 4	315.14	338.16	357. 2
26	212.21	250. 8	286.11	316. 6	338.56	357.38
27	213.36	251.23	287.18	316.58	339.36	358.14
28	214.52	252.38	288.25	317.50	340.16	358.49
29	216. 7	253.53	289.31	318.41	340.56	359.25
30	217.23	255. 8	290.37	319.32	341.35	360. 0

Tab. Aſcenſion. obliqvarum Ecl.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	19.24	42.18	71.35	106.42	143.36
1	0.37	20. 5	43.10	72.41	107.55	144.50
2	1.15	20.46	44. 2	73.47	109. 9	146. 3
3	1.52	21.28	44.55	74.53	110.22	147.17
4	2.30	22.10	45.48	76. 0	111.36	148.30
5	3. 8	22.52	46.42	77. 7	112.50	149.43
6	3.46	23.35	47.36	78.15	114. 3	150.57
7	4.24	24.18	48.30	79.23	115.17	152.10
8	5. 2	25. 1	49.25	80.31	116.30	153.23
9	5.40	25.45	50.20	81.40	117.44	154.36
10	6.18	26.29	51.16	82.49	118.58	155.49
11	6.56	27.13	52.12	83.58	120.12	157. 2
12	7.34	27.57	53. 9	85. 8	121.26	158.15
13	8.12	28.41	54. 7	86.18	122.40	159.28
14	8.50	29.26	55. 5	87.28	123.55	160.41
15	9.29	30.11	56. 4	88.38	125. 9	161.53
16	10. 7	30.57	57. 3	89.49	126.23	163. 6
17	10.46	31.43	58. 2	91. 0	127.37	164.19
18	11.25	32.30	59. 2	92.11	128.51	165.31
19	12. 4	33.17	60. 2	93.22	130. 5	166.44
20	12.43	34. 4	61. 3	94.34	131.19	167.56
21	13.22	34.52	62. 4	95.46	132.33	169. 9
22	14. 1	35.40	63. 6	96.58	133.47	170.21
23	14.41	36.28	64. 8	98.10	135. 1	171.34
24	15.21	37.17	65.10	99.23	136.15	172.46
25	16. 1	38. 6	66.13	100.36	137.28	173.58
26	16.41	38.56	67.16	101.49	138.42	175.11
27	17.21	39.46	68.20	103. 2	139.56	176.23
28	18. 2	40.36	69.24	104.15	141. 9	177.36
29	18.43	41.47	70.29	105.28	142.23	178.48
30	19.24	42.18	71.35	106.42	143.36	180. 0

	♎	♏	♐	♑	♒	♓
o	o '	o '	o '	o '	o '	o '
0	180. 0	216.24	253.18	288.25	317.42	340.36
1	181.12	217.37	254.32	289.31	318.33	341.17
2	182.24	218.51	255.45	290.36	319.24	341.58
3	183.37	220. 4	256.58	291.40	320.14	342.39
4	184.49	221.18	258.11	292.44	321. 4	343.19
5	186. 2	222.32	259.24	293.47	321.54	343.59
6	187.14	223.45	260.37	294.50	322.43	344.39
7	188.26	224.59	261.50	295.52	323.32	345.19
8	189.39	226.13	263. 2	296.54	324.20	345.59
9	190.51	227.27	264.14	297.56	325. 8	346.38
10	192. 4	228.41	265.26	298.57	325.56	347.17
11	193.16	229.55	266.38	299.58	326.43	347.56
12	194.29	231. 9	267.49	300.58	327.30	348.35
13	195.41	232.23	269. 0	301.58	328.17	349.14
14	196.54	233.37	270.11	302.57	329. 3	349.53
15	198. 7	234.51	271.22	303.56	329.49	350.31
16	199.19	236. 5	272.32	304.55	330.34	351.10
17	200.32	237.20	273.42	305.53	331.19	351.48
18	201.45	238.34	274.52	306.51	332. 3	352.26
19	202.58	239.48	276. 2	307.48	332.47	353. 4
20	204.11	241. 2	277.11	308.44	333.31	353.42
21	205.24	242.16	278.20	309.40	334.15	354.20
22	206.37	243.30	279.29	310.35	334.59	354.58
23	207.50	244.43	280.37	311.30	335.42	355.36
24	209. 3	245.57	281.45	312.24	336.25	356.14
25	210.17	247.10	282.53	313.18	337. 8	356.52
26	211.30	248.24	284. 0	314.12	337.50	357.30
27	212.43	249.38	285. 7	315. 5	338.32	358. 8
28	213.57	250.51	286.13	315.58	339.14	358.45
29	215.10	252. 5	287.19	316.50	339.55	359.23
30	216.24	253.18	288.25	317.42	340.36	360. 0

Tab. Aſcenſion. obliqvarum Ecl.

	♈	♉	♊	♋	♌	♍
°	° '	° '	° '	° '	° '	° '
0	0. 0	19. 5	41.42	70.52	106. 6	143.17
1	0.37	19.46	42.34	71.58	107.20	144.31
2	1.14	20.27	43.26	73. 4	108.34	145.45
3	1.51	21. 8	44.18	74.11	109.48	146.59
4	2.28	21.49	45.11	75.18	111. 2	148.13
5	3. 5	22.30	46. 4	76.25	112.16	149.27
6	3.42	23.12	46.58	77.33	113.30	150.41
7	4.19	23.54	47.52	78.41	114.44	151.55
8	4.56	24.37	48.47	79.49	115.59	153. 9
9	5.33	25.20	49.42	80.58	117.13	154.23
10	6.11	26. 3	50.37	82. 7	118.28	155.36
11	6.48	26.46	51.33	83.16	119.42	156.50
12	7.26	27.30	52.30	84.26	120.57	158. 3
13	8. 3	28.14	53.27	85.36	122.11	159.17
14	8.41	28.58	54.25	86.46	123.26	160.30
15	9.19	29.43	55.23	87.57	124.41	161.43
16	9.57	30.28	56.22	89. 8	125.56	162.57
17	10.35	31.14	57.21	90.19	127.10	164.10
18	11.13	32. 0	58.21	91.31	128.25	165.23
19	11.51	32.47	59.21	92.43	129.39	166.36
20	12.30	33.34	60.21	93.55	130.53	167.49
21	13. 9	34.21	61.22	95. 7	132. 8	169. 3
22	13.48	35. 8	62.24	96.19	133.23	170.16
23	14.27	35.56	63.26	97.32	134.37	171.29
24	15. 6	36.44	64.28	98.45	135.52	172.42
25	15.45	37.32	65.31	99.58	137. 6	173.55
26	16.25	38.21	66.34	101.11	138.21	175. 8
27	17. 5	39.10	67.38	102.24	139.35	176.21
28	17.45	40. 0	68.42	103.38	140.49	177.34
29	18.25	40.51	69.47	104.52	142. 3	178.47
30	19. 5	41.42	70.52	106. 6	143.17	180. 0

Ad latitud. loci 37. Grad.

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	216.43	253.54	289. 8	318.18	340.55
1	181.13	217.57	255. 8	290.13	319. 9	341.35
2	182.26	219.11	256.22	291.18	320. 0	342.15
3	183.39	220.25	257.36	292.22	320.50	342.55
4	184.52	221.39	258.49	293.26	321.39	343.35
5	186. 5	222.54	260. 2	294.29	322.28	344.15
6	187.18	224. 8	261.15	295.32	323.16	344.54
7	188.31	225.23	262.28	296.34	324. 4	345.33
8	189.44	226.37	263.41	297.36	324.52	346.12
9	190.57	227.52	264.53	298.38	325.39	346.51
10	192.11	229. 7	266. 5	299.39	326.26	347.30
11	193.24	230.21	267.17	300.39	327.13	348. 9
12	194.37	231.35	268.29	301.39	328. 0	348.47
13	195.50	232.50	269.41	302.39	328.46	349.25
14	197. 3	234. 4	270.52	303.38	329.32	350. 3
15	198.17	235.19	272. 3	304.37	330.17	350.41
16	199.30	236.34	273.14	305.35	331. 2	351.19
17	200.43	2[illegible]9	274.24	306.33	331.46	351.57
18	201.57	239. 3	275.34	307.30	332.30	352.34
19	203.10	240.18	276.44	308.27	333.14	353.12
20	204.24	241.32	277.53	309.23	333.57	353.49
21	205.37	242.47	279. 2	310.18	334.40	354.27
22	206.51	244. 1	280.11	311.13	335.23	355. 4
23	208. 5	245.16	281.19	312. 8	336. 6	355.41
24	209.19	246.30	282.27	313. 2	336.48	356.18
25	210.33	247.44	283.35	313.56	337.30	356.55
26	211.47	248.58	284.42	314.49	338.11	357.32
27	213. 1	250.12	285.49	315.42	338.52	358. 9
28	214.15	251.26	286.56	316.34	339.33	358.46
29	215.29	252.40	288. 2	317.26	340.14	359.23
30	216.43	253.54	289. 8	318.18	340.55	360. 0

Tab. Aſcenſion. obliqvarum Eclipticæ.

	♈	♉	♊	♋	♌	♍
°	° '	° '	° '	° '	° '	° '
0	0. 0	18.45	41. 6	70. 8	105.30	142.57
1	0.36	19.25	41.57	71.14	106.44	144.12
2	1.12	20. 5	42.48	72.20	107.58	145.27
3	1.49	20.45	43.40	73.27	109.13	146.41
4	2.25	21.26	44.32	74.34	110.27	147.56
5	3. 2	22. 7	45.25	75.41	111.42	149.10
6	3.38	22.49	46.18	76.49	112.56	150.25
7	4.14	23.31	47.12	77.57	114.11	151.40
8	4.51	24.13	48. 6	79. 6	115.26	152.54
9	5.27	24.55	49. 1	80.15	116.41	154. 9
10	6. 4	25.38	49.57	81.24	117.56	155.23
11	6.41	26.21	50.53	82.34	119.11	156.37
12	7.18	27. 4	51.49	83.44	120.27	157.51
13	7.55	27.47	52.46	84.54	121.43	159. 5
14	8.32	28.31	53.43	86. 4	122.58	160.19
15	9. 9	29.15	54.41	87.15	124.13	161.33
16	9.46	30. 0	55.39	88.26	125.28	162.47
17	10.24	30.45	56.38	[illegible]	126.43	164. 1
18	11. 1	31.30	57.37	[illegible]	127.58	165.15
19	11.39	32.16	58.37	92. 2	129.13	166.29
20	12.17	33. 2	59.38	93.15	130.28	167.42
21	12.55	33.48	60.39	94.27	131.43	168.56
22	13.33	34.35	61.40	95.40	132.58	170.10
23	14.11	35.22	62.42	96.53	134.13	171.24
24	14.49	36.10	63.44	98. 6	135.28	172.38
25	15.28	36.58	64.47	99.19	136.43	173.52
26	16. 7	37.47	65.50	100.33	137.58	175. 6
27	16.46	38.36	66.54	101.47	139.13	176.20
28	17.25	39.26	67.58	103. 1	140.28	177.33
29	18. 5	40.16	69. 3	104.15	141.43	178.47
30	18.45	41. 6	70. 8	105.30	142.57	180. 0

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	217. 3	254.30	289.52	318.54	341.15
1	181.13	218.17	255.45	290.57	319.44	341.55
2	182.27	219.32	256.59	292. 2	320.34	342.35
3	183.40	220.47	258.13	293. 6	321.24	343.14
4	184.54	222. 2	259.27	294.10	322.13	343.53
5	186. 8	223.17	260.41	295.13	323. 2	344.32
6	187.22	224.32	261.54	296.16	323.50	345.11
7	188.36	225.47	263. 7	297.18	324.38	345.49
8	189.50	227. 2	264.20	298.20	325.25	346.27
9	191. 4	228.17	265.33	299.21	326.12	347. 5
10	192.18	229.32	266.45	300.22	326.58	347.43
11	193.31	230.47	267.58	301.22	327.44	348.21
12	194.45	232. 2	269.10	302.23	328.30	348.59
13	195.59	233.17	270.22	303.22	329.15	349.36
14	197.13	234.32	271.34	304.21	330. 0	350.14
15	198.27	235.47	272.45	305.19	330.45	350.51
16	199.41	237. 2	273.56	306.17	331.29	351.28
17	200.55	238.17	275. 6	307.14	332.13	352. 5
18	202. 9	239.33	276.16	308.11	332.56	352.42
19	203.23	240.49	277.26	309. 7	333.39	353.19
20	204.37	242. 4	278.36	310. 3	334.22	353.56
21	205.51	243.19	279.45	310.59	335. 5	354.33
22	207. 6	244.34	280.54	311.54	335.47	355. 9
23	208.20	245.49	282. 3	312.48	336.29	355.46
24	209.35	247. 4	283.11	313.42	337.11	356.22
25	219.50	248.18	284.19	314.35	337.53	356.58
26	212. 4	249.33	285.26	315.28	338.34	357.35
27	213.19	250.47	286.33	316.20	339.15	358.11
28	214.33	252. 2	287.40	317.12	339.5	358.4
29	215.48	253.16	288.46	318. 3	340.35	359.2
30	217. 3	254.30	289.52	318.54	341.15	360.

Tab. Aſcenſion. obliqvarum Eclipticæ.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	18.25	40.28	69.23	104.52	142.37
1	0.35	19. 4	41.19	70.29	106. 7	143.53
2	1.11	19.44	42.10	71.35	107.22	145. 8
3	1.46	20.24	43. 2	72.42	108.37	146.24
4	2.22	21. 4	43.54	73.49	109.52	147.39
5	2.58	21.44	44.46	74.56	111. 7	148.54
6	3.34	22.25	45.39	76. 4	112.22	150. 9
7	4.10	23. 6	46.32	77.12	113.37	151.24
8	4.46	23.47	47.26	78.21	114.53	152.39
9	5.22	24.29	48.20	79.30	116. 8	153.54
10	5.58	25.11	49.15	80.39	117.24	155. 9
11	6.34	25.53	50.10	81.49	118.39	156.24
12	7.10	26.36	51. 6	82.59	119.55	157.39
13	7.46	27.19	52. 3	84.10	121.11	158.54
14	8.22	28. 2	53. 0	85.21	122.27	160. 9
15	8.59	28.45	53.58	86.32	123.43	161.23
16	9.35	29.29	54.56	87.44	124.59	162.38
17	10.12	30.13	55.55	88.56	126.15	163.53
18	10.49	30.58	56.54	90. 8	127.30	165. 7
19	11.26	31.44	57.53	91.20	128.46	166.22
20	12. 3	32.30	58.53	92.33	130. 1	167.36
21	12.40	33.16	59.54	93.46	131.17	168.51
22	13.18	34. 2	60.55	94.59	132.33	170. 5
23	13.56	34.49	61.57	96.12	133.49	171.20
24	14.34	35.36	62.59	97.26	135. 5	172.34
25	15.12	36.23	64. 2	98.40	136.20	173.48
26	15.50	37.11	65. 5	99.54	137.36	175. 3
27	16.28	37.59	66. 9	101. 8	138.51	176.17
28	17. 7	38.48	67.13	102.22	140. 7	177.32
29	17.46	39.38	68.18	103.37	141.22	178.46
30	18.25	40.28	69.23	104.52	142.37	180. 0

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	217.23	255. 8	290.37	319.32	341.35
1	181.14	218.38	256.23	291.42	320.22	342.14
2	182.28	219.53	257.38	292.47	321.12	342.53
3	183.43	221. 9	258.52	293.51	322. 1	343.32
4	184.57	222.24	260. 6	294.55	322.49	344.10
5	186.12	223.40	261.20	295.58	323.37	344.48
6	187.26	224.55	262.34	297. 1	324.24	345.26
7	188.40	226.11	263.48	298. 3	325.11	346. 4
8	189.55	227.27	265. 1	299. 5	325.58	346.42
9	191. 9	228.43	266.14	300. 6	326.44	347.20
10	192.24	229.59	267.27	301. 7	327.30	347.57
11	193.38	231.14	268.40	302. 7	328.16	348.34
12	194.53	232.30	269.52	303. 6	329. 2	349.11
13	196. 7	233.45	271. 4	304. 5	329.47	349.48
14	197.22	235. 1	272.16	305. 4	330.31	350.25
15	198.37	236.17	273.28	306. 2	331.15	351. 1
16	199.51	237.33	274.39	307. 0	331.58	351.38
17	201. 6	238.49	275.50	307.57	332.41	352.14
18	202.21	240. 5	277. 1	308.54	333.24	352.50
19	203.36	241.21	278.11	309.50	334. 7	353.26
20	204.51	242.36	279.21	310.45	334.49	354. 2
21	206. 6	243.52	280.30	311.40	335.31	354.38
22	207.21	245. 7	281.39	312.34	336.13	355.14
23	208.36	246.23	282.48	313.28	336.54	355.50
24	209.51	247.38	283.56	314.21	337.35	356.26
25	211. 6	248.53	285. 4	315.14	338.16	357. 2
26	212.21	250. 8	286.11	316. 6	338.56	357.38
27	213.36	251.23	287.18	316.58	339.36	358.14
28	214.52	252.38	288.25	317.50	340.16	358.49
29	216. 7	253.53	289.31	318.41	340.56	359.25
30	217.23	255. 8	290.37	319.32	341.35	360. 0

Tab. Aſcenſ. obliqvarum Eclipt.

	♈	♉	♊	♋	♌	♍
	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	18. 4	39.49	68.36	104.14	142.16
1	0.35	18.43	40.39	69.41	105.28	143.32
2	1.10	19.22	41.30	70.47	106.44	144.48
3	1.45	20. 1	42.21	71.54	107.59	146. 4
4	2.20	20.40	43.12	73. 1	109.15	147.20
5	2.55	21.20	44. 4	74. 9	110.31	148.36
6	3.30	22. 0	44.56	75.17	111.46	149.52
7	4. 5	22.41	45.49	76.25	113. 2	151. 8
8	4.40	23.22	46.43	77.34	114.18	152.23
9	5.15	24. 3	47.37	78.43	115.34	153.39
10	5.51	24.44	48.32	79.53	116.50	154.54
11	6.26	25.26	49.27	81. 3	118. 6	156.10
12	7. 1	26. 8	50.23	82.13	119.22	157.26
13	7.37	26.50	51.19	83.24	120.39	158.41
14	8.12	27.32	52.16	84.35	121.55	159.57
15	8.48	28.14	53.13	85.47	123.12	161.12
16	9.24	28.57	54.11	86.59	124.28	162.28
17	10. 0	29.41	55. 9	88.12	125.45	163.43
18	10.36	30.26	56. 8	89.24	127. 2	164.59
19	11.12	31.11	57. 7	90.37	128.18	166.14
20	11.48	31.56	58. 7	91.50	129.34	167.29
21	12.25	32.41	59. 7	93. 3	130.51	168.45
22	13. 2	33.27	60. 8	94.17	132. 7	170. 0
23	13.39	34.13	61.10	95.30	133.24	171.15
24	14.16	35. 0	62.12	96.44	134.40	172.30
25	14.54	35.47	63.15	97.58	135.56	173.45
26	15.32	36.34	64.18	99.13	137.12	175. 0
27	16.10	37.22	65.22	100.28	138.28	176.15
28	16.48	38.10	66.26	101.43	139.44	177.30
29	17.26	38.59	67.31	102.58	141. 0	178.45
30	18. 4	39.49	68.36	104.13	142.16	180. 0

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	217.44	255.47	291.24	320.11	341.56
1	181.15	219. 0	257. 2	292.29	321. 1	342.34
2	182.30	220.16	258.17	293.34	321.50	343.12
3	183.45	221.32	259.32	294.38	322.38	343.50
4	185. 0	222.48	260.47	295.42	323.26	344.28
5	186.15	224. 4	262. 2	296.45	324.13	345. 6
6	187.30	225.20	263.16	297.48	325. 0	345.44
7	188.45	226.36	264.30	298.50	325.47	346.21
8	190. 0	227.53	265.43	299.52	326.33	346.58
9	191.15	229. 9	266.57	300.53	327.19	347.35
10	192.31	230.26	268.10	301.53	328. 4	348.12
11	193.46	231.42	269.23	302.53	328.49	348.48
12	195. 1	232.58	270.36	303.52	329.34	349.24
13	196.17	234.15	271.48	304.51	330.19	350. 0
14	197.32	235.32	273. 1	305.49	331. 3	350.36
15	198.48	236.48	274.13	306.47	331.46	351.12
16	200. 3	238. 5	275.25	307.44	332.28	351.48
17	201.19	239.21	276.36	308.41	333.10	352.23
18	202.34	240.33	277.47	309.37	333.52	352.59
19	203.50	241.54	278.57	310.33	334.34	353.34
20	205. 6	243.10	280. 7	311.28	335.16	354. 9
21	206.21	244.26	281.17	312.23	335.57	354.45
22	207.37	245.42	282.26	313.17	336.38	355.20
23	208.52	246.58	283.35	314.11	337.19	355.55
24	210. 8	248.14	284.43	315. 4	338. 0	356.30
25	211.24	249.29	285.51	315.56	338.40	357. 5
26	212.40	250.45	286.59	316.48	339.20	357.40
27	213.56	252. 1	288. 6	317.39	339.59	358.15
28	215.12	253.16	289.13	318.30	340.38	358.50
29	216.28	254.32	290.19	319.21	341.17	359.25
30	217.44	255.47	291.24	320.11	341.56	360. 0

Tabula. Aſcenſionum obliquarum Ecl.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	17.43	39. 9	67.47	103.33	141.55
1	0.34	18.21	39.58	68.53	104.49	143.12
2	1. 8	18.59	40.48	69.59	106. 5	144.29
3	1.42	19.38	41.39	71. 6	107.21	145.45
4	2.16	20.16	42.30	72.13	108.37	147. 2
5	2.51	20.55	43.22	73.21	109.53	148.18
6	3.25	21.34	44.14	74.29	111. 9	149.35
7	3.59	22.14	45. 7	75.38	112.25	150.52
8	4.34	22.54	46. 0	76.47	113.42	152. 8
9	5. 8	23.34	46.53	77.56	114.58	153.25
10	5.43	24.15	47.47	79. 6	116.15	154.41
11	6.18	24.56	48.42	80.17	117.32	155.58
12	6.53	25.38	49.38	81.28	118.49	157.14
13	7 28	26.19	50.34	82.39	120. 6	158.30
14	8. 3	27. 1	51.30	83.49	121.23	159.46
15	8.38	27.43	52.27	85. 1	122.40	161. 2
16	9.13	28.26	53.25	86.13	123.57	162.18
17	9.48	29.10	54.23	87.26	125.14	163.34
18	10.24	29.53	55.22	88.39	126.31	164.50
19	10.59	30.37	56.21	89.52	127.48	166. 6
20	11.35	31.21	57.20	91. 5	129. 5	167.21
21	12.11	32. 6	58.20	92.19	130.22	168.37
22	12.47	32.52	59.21	93.33	131.39	169.53
23	13.23	33.37	60.22	94.47	132.57	171. 9
24	13.59	34.23	61.24	96. 1	134.14	172.25
25	14.36	35. 9	62.27	97.16	135.31	173.41
26	15.13	35.56	63.30	98.31	136.48	174.57
27	15.50	36.44	64.34	99.46	138. 5	176.13
28	16.28	37.32	65.38	101. 2	139.22	177.29
29	17. 5	38.20	66.42	102.17	140.39	178.45
30	17.43	39. 9	67.47	103.33	141.55	180. 0

		♎	♏	♐	♑	♒	♓
°		° ′	° ′	° ′	° ′	° ′	° ′
0		180. 0	218. 5	256.27	292.13	320.51	342.17
1		181.15	219.21	257.43	293.18	321.40	342.55
2		182.31	220.38	258.58	294.22	322.18	343.32
3		183.47	221.55	260.14	295.26	323.16	344.10
4		185. 3	223.12	261.29	296.30	324. 4	344.47
5		186.19	224.29	262.44	297.33	324.51	345.24
6		187.35	225.46	263.59	298.36	325.37	346. 1
7		188.51	227. 3	265.13	299.38	326.23	346.37
8		190. 7	228.21	266.27	300.39	327. 8	347.13
9		191.23	229.38	267.41	301.40	327.54	347.49
10		192.39	230.55	268.55	302.40	328.39	348.25
11		193.54	232.12	270. 8	303.39	329.23	349. 1
12		195.10	233.29	271.21	304.38	330. 7	349.36
13		196.26	234.46	272.34	305.37	330.50	350. 2
14		197.42	236. 3	273.47	306.35	331.34	350.47
15		198.58	237.20	274.59	307.33	332.17	351.22
16		200.14	238.37	276.11	308.30	332.59	351.57
17		201.30	239.54	277.21	309.26	333.41	352.32
18		202.46	241.11	278.32	310.22	334.22	353. 7
19		204. 2	242.28	279.43	311.18	335. 4	353.42
20		205.19	243.45	280.54	312.13	335.45	354.17
21		206.35	245. 2	282. 4	313. 7	336.26	354.52
22		207.52	246.18	283.13	314. 0	337. 6	355.26
23		209. 8	247.35	284.22	314.53	337.46	356. 1
24		210.25	248.51	285.31	315.46	338.26	356.35
25		211.42	250. 7	286.39	316.38	339. 5	357. 9
26		212.58	251.23	287.47	317.30	339.44	357.44
27		214.15	252.39	288.54	318.21	340.22	358.18
28		215.31	253.55	290. 1	319.12	341. 1	358.52
29		216.48	255.11	291. 7	320. 2	341.39	359.26
30		218. 5	256.27	292.13	320.51	342.17	360. 0

Tab. Aſcenſ. obliqvarum Eclipt.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	17.21	38.27	66.57	102.51	141.33
1	0.33	17.58	39.16	68. 3	104. 7	142.51
2	1. 6	18.36	40. 6	69. 9	105.24	144. 8
3	1.40	19.13	40.56	70.16	106.40	145.26
4	2.13	19.51	41.46	71.23	107.57	146.43
5	2.47	20.29	42.37	72.31	109.14	148. 9
6	3.20	21. 8	43.28	73.39	110.31	149.18
7	3.54	21.48	44.20	74.47	111.48	150.3[illegible]
8	4.29	22.27	45.13	75.56	113. 5	151.5[illegible]
9	5. 2	23. 6	46. 7	77. 6	114.22	153. 9
10	5.36	23.46	47. 1	78.16	115.40	154.26
11	6.10	24.26	47.56	79.27	116.57	155.43
12	6.44	25. 7	48.51	80.38	118.15	157. 0
13	7.18	25.48	49.47	81.50	119.32	158.17
14	7.52	26.29	50.43	83. 1	120.50	159.34
15	8.26	27.10	51.39	84.13	122. 8	160.50
16	9. 0	27.52	52.36	85.26	123.25	162. 7
17	9.35	28.35	53.34	86.39	124.43	163.24
18	10.10	29.18	54.32	87.52	126. 0	164.41
19	10.45	30. 2	55.31	89. 5	127.18	165.58
20	11.20	30.46	56.30	90.19	128.36	167.14
21	11.55	31.30	57.30	91.33	129.54	168.31
22	12.31	32.15	58.31	92.47	131.12	169.48
23	13. 6	33. 0	59.32	94. 2	132.30	171. 4
24	13.42	33.45	60.34	95.16	133.48	172.21
25	14.18	34.30	61.37	96.31	135. 5	173.37
26	14.54	35.16	62.40	97.47	136.23	174.54
27	15.31	36. 3	63.44	99. 3	137.41	176.11
28	16. 7	36.50	64.48	100.19	138.58	177.27
29	16.44	37.38	65.52	101.35	140.16	178.44
30	17.21	38.27	66.57	102.51	141.33	180. 0

Ad latit. loci 42. Grad.

	♎	♏	♐	♑	♒	♓
°	° '	° '	° '	° '	° '	° '
0	180. 0	218.27	257. 9	293. 3	321.33	342.39
1	181.16	219.44	258.25	294. 8	322.22	343.16
2	182.33	221. 2	259.41	295.12	323.10	343.53
3	183.49	222.19	260.57	296.16	323.57	344.29
4	185. 6	223.37	262.13	297.20	324.44	345. 6
5	186.23	224.55	263.29	298.23	325.30	345.42
6	187.39	226.12	264.44	299.26	326.15	346.18
7	188.56	227.30	265.58	300.28	327. 0	346.54
8	190.12	228.48	267.13	301.29	327.45	347.29
9	191.29	230. 6	268.27	302.30	328.30	348. 5
10	192.46	231.24	269.41	303.30	329.14	348.40
11	194. 2	232.42	270.55	304.29	329.58	349.15
12	195.19	234. 0	272. 8	305.28	330.42	349.50
13	196.36	235.17	273.21	306.26	331.25	350.25
14	197.53	236.35	274.34	307.24	332. 8	351. 0
15	199.10	237.52	275.47	308.21	332.50	351.34
16	200.26	239.10	276.59	309.17	333.31	352. 8
17	201.43	240.28	278.10	310.13	334.12	352.32
18	203. 0	241.45	279.22	311. 9	334.53	353.16
19	204.17	243. 3	280.33	312. 4	335.34	353.50
20	205.34	244.20	281.44	312.59	336.14	354.24
21	206.51	245.38	282.54	313.53	336.54	354.58
22	208. 8	246.55	284. 4	314.47	337.33	355.32
23	209.25	248.12	285.13	315.40	338.12	356. 6
24	210.42	249.29	286.21	316.32	338.52	356.40
25	212. 0	250.46	287.29	317.23	339.31	357.13
26	213.17	252. 3	288.37	318.14	340. 9	357.47
27	214.34	253.20	289.44	319. 4	340.47	358.20
28	215.52	254.36	290.51	319.54	341.24	358.54
29	217. 9	255.53	291.57	320.44	342. 2	359.27
30	218.27	257. 9	293. 3	321.33	342.39	360. 0

* Tab. Aſcenſ. obliqvarum Eclipt.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	16.58	37.44	66. 5	102. 8	141.10
1	0.32	17.35	38.33	67.11	103.25	142.29
2	1. 5	18.12	39.22	68.17	104.42	143.47
3	1.38	18.49	40.12	69.24	105.59	145. 5
4	2.11	19.26	41. 2	70.31	107.16	146.23
5	2.44	20. 3	41.52	71.39	108.34	147.41
6	3.16	20.41	42.43	72.47	109.51	148.59
7	3.49	21.20	43.35	73.55	111. 9	150.17
8	4.22	21.58	44.27	75. 4	112.27	151.35
9	4.55	22.37	45.20	76.14	113.45	152.53
10	5.28	23.16	46.13	77.25	115. 3	154.10
11	6. 1	23.56	47. 7	78.36	116.21	155.28
12	6.34	24.36	48. 2	79.48	117.39	156.46
13	7. 8	25.16	48.57	80.59	118.58	158. 4
14	7.41	25.56	49.53	82.11	120.16	159.22
15	8.15	26.37	50.49	83.23	121.35	160.39
16	8.48	27.19	51.46	84.36	122.53	161.56
17	9.22	28. 1	52.44	85.50	124.11	163.13
18	9.56	28.44	53.42	87. 4	125.29	164.31
19	10.30	29.26	54.40	88.17	126.47	165.48
20	11. 4	30. 9	55.39	89.31	128. 6	167. 6
21	11.39	30.53	56.39	90.46	129.25	168.23
22	12.14	31.37	57.40	92. 1	130.43	169.41
23	12.49	32.21	58.41	93.16	132. 2	170.58
24	13.24	33. 5	59.43	94.31	133.21	172.16
25	13.59	33.50	60.45	95.46	134.39	173.34
26	14.34	34.35	61.48	97. 2	135.58	174.51
27	15.10	35.21	62.51	98.18	137.16	176. 8
28	15.46	36. 8	63.55	99.35	138.34	177.25
29	16.22	36.56	65. 0	100.51	139.52	178.42
30	16.58	37.44	66. 5	102. 8	141.10	180. 0

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	218.50	257.52	293.55	322.16	343. 2
1	181.18	220. 8	259. 9	295. 0	323. 4	343.38
2	182.35	221.26	260.25	296. 5	323.52	344.14
3	183.52	222.44	261.42	297. 9	324.39	344.50
4	185. 9	224. 2	262.58	298.12	325.25	345.26
5	186.26	225.21	264.14	299.15	326.10	346. 1
6	187.44	226.39	265.29	300.17	326.55	346.36
7	189. 2	227.58	266.44	301.19	327.39	347.11
8	190.19	229.17	267.59	302.20	328.23	347.46
9	191.37	230.35	269.14	303.21	329. 7	348.21
10	192.54	231.54	270.29	304.21	329.51	348.56
11	194.12	233.13	271.43	305.20	330.34	349.30
12	195.29	234.31	272.56	306.18	331.16	350. 4
13	196.47	235.49	274.10	307.16	331.59	350.38
14	198. 4	237. 7	275.24	308.14	332.41	351.12
15	199.21	238.25	276.37	309.11	333.23	351.45
16	200.38	239.44	277.49	310. 7	334. 4	352.19
17	201.56	241. 2	279. 1	311. 3	334.44	352.52
18	203.14	242.21	280.12	311.58	335.24	353.26
19	204.32	243.39	281.24	312.53	336. 4	353.59
20	205.50	244.57	282.35	313.47	336.44	354.32
21	207. 7	246.15	283.46	314.40	337.23	355. 5
22	208.25	247.33	284.56	315.33	338. 2	355.38
23	209.43	248.51	286. 5	316.25	338.40	356.11
24	211. 1	250. 9	287.13	317.17	339.19	356.44
25	212.19	251.26	288.21	318. 8	339.57	357.16
26	213.37	252.44	289.29	318.58	340.34	357.49
27	214.55	254. 1	290.36	319.48	341.11	358.22
28	216.13	255.18	291.43	320.38	341.48	358.55
29	217.31	256.35	292.49	321.27	342.25	359.28
30	218.50	257.52	293.55	322.16	343. 2	360. 0

Tab. Aſcenſionum obliqvarum Eclipt.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	16.10	36.13	64.14	100.37	140.22
1	0.31	16.45	37. 0	65.20	101.55	141.42
2	1. 2	17.20	37.48	66.26	103.13	143. 2
3	1.33	17.56	38.36	67.33	104.32	144.21
4	2. 4	18.31	39.25	68.40	105.50	145.41
5	2.35	19. 7	40.15	69.48	107. 9	147. 0
6	3. 6	19.43	41. 5	70.56	108.28	148.20
7	3.37	20.20	41.56	72. 5	109.47	149.40
8	4. 9	20.57	42.47	73.15	111. 6	150.59
9	4.40	21.34	43.39	74.25	112.25	152.19
10	5.12	22.12	44.31	75.36	113.44	153.38
11	5.43	22.50	45.24	76.48	115. 3	154.58
12	6.15	23.29	46.18	78. 0	116.23	156.17
13	6.47	24. 8	47.12	79.12	117.42	157.37
14	7.19	24.47	48. 7	80.24	119. 2	158.56
15	7.51	25.26	49. 3	81.37	120.22	160.15
16	8.23	26. 6	49.59	82.51	121.42	161.34
17	8.55	26.47	50.56	84. 5	123. 2	162.53
18	9.27	27.28	51.53	85.20	124.22	164.12
19	9.59	28. 9	52.51	86.34	125.42	165.31
20	10.32	28.50	53.50	87.49	127. 2	166.50
21	11. 5	29.32	54.49	89. 4	128.22	168. 9
22	11.38	30.15	55.49	90.20	129.42	169.28
23	12.11	30.58	56.50	91.36	131. 3	170.47
24	12.44	31.41	57.52	92.52	132.23	172. 6
25	13.18	32.25	58.54	94. 9	133.43	173.25
26	13.52	33.10	59.57	95.26	135. 3	174.44
27	14.26	33.56	61. 0	96.44	136.23	176. 3
28	15. 1	34.41	62. 4	98. 1	137.43	177.22
29	15.35	35.27	63. 9	99.19	139. 3	178.41
30	16.10	36.13	64.14	100.37	140.22	180. 0

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	219.38	259.23	295.46	323.47	343.50
1	181.19	220.57	260.41	296.51	324.33	344.25
2	182.38	222.17	261.59	297.56	325.19	344.59
3	183.57	223.37	263.16	299. 0	326. 4	345.34
4	185.16	224.57	264.34	300. 3	326.50	346. 8
5	186.35	226.17	265.51	301. 6	327.35	346.42
6	187.54	227.37	267. 8	302. 8	328.19	347.16
7	189.13	228.57	268.24	303.10	329. 2	347.49
8	190.32	230.18	269.40	304.11	329.45	348.22
9	191.51	231.38	270.56	305.11	330.28	348.55
10	193.10	232.58	272.11	306.10	331.10	349.28
11	194.29	234.18	273.26	307. 9	331.51	350. 1
12	195.48	235.38	274.40	308. 7	332.32	350.33
13	197. 7	236.58	275.55	309. 4	333.13	351. 5
14	198.26	238.18	277. 9	310. 1	333.54	351.37
15	199.45	239.38	278.23	310.57	334.34	352. 9
16	201. 4	240.58	279.36	311.53	335.13	352.41
17	202.23	242.18	280.48	312.48	335.52	353.13
18	203.43	243.37	282. 0	313.42	336.31	353.45
19	205. 2	244.57	283.12	314.36	337.10	354.17
20	206.22	246.16	284.24	315.29	337.48	354.48
21	207.41	247.35	285.35	316.21	338.26	355.20
22	209. 1	248.54	286.45	317.13	339. 3	355.51
23	210.20	250.13	287.55	318. 4	339.40	356.23
24	211.40	251.32	289. 4	318.55	340.17	356.54
25	213. 0	252.51	290.12	319.45	340.53	357.25
26	214.19	254.10	291.20	320.35	341.29	357.56
27	215.39	255.28	292.27	321.24	342. 4	358.27
28	216.58	256.47	293.34	322.12	342.40	358.58
29	218.18	258. 5	294.40	323. 0	343.15	359.29
30	219.38	259.23	295.46	323.47	343.50	360. 0

Tabula Aſcenſionum obliqvarum Ecl.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	15.44	35.24	63.14	99.48	139.56
1	0.30	16.18	36.11	64.20	101. 7	141.17
2	1. 0	16.53	36.58	65.27	102.26	142.38
3	1.30	17.27	37.46	66.34	103.45	143.58
4	2. 0	18. 2	38.34	67.41	105. 4	145.19
5	2.31	18.37	39.23	68.49	106.24	146.39
6	3. 1	19.13	40.12	69.58	107.43	148. 0
7	3.32	19.49	41. 2	71. 8	109. 3	149.20
8	4. 2	20.26	41.53	72.18	110.23	150.41
9	4.33	21. 2	42.45	73.28	111.43	152. 1
10	5. 4	21.39	43.37	74.39	113. 3	153.21
11	5.34	22.16	44.30	75.51	114.23	154.42
12	6. 5	22.54	45.24	77. 3	115.44	156. 2
13	6.36	23.32	46.18	78.16	117. 4	157.22
14	7. 7	24.10	47.12	79.28	118.25	158.42
15	7.38	24.48	48. 7	80.41	119.46	160. 2
16	8. 9	25.27	49. 3	81.55	121. 6	161.22
17	8.40	26. 7	50. 0	83.10	122.27	162.42
18	9.12	26.47	50.57	84.25	123.47	164. 2
19	9.43	27.28	51.55	85.40	125. 8	165.22
20	10.15	28. 9	52.53	86.55	126.29	166.42
21	10.47	28.51	53.52	88.11	127.50	168. 2
22	11.19	29.33	54.52	89.27	129.10	169.22
23	11.52	30.15	55.52	90.44	130.31	170.42
24	12.24	30.57	56.53	92. 0	131.52	172. 2
25	12.57	31.40	57.55	93.17	133.13	173.21
26	13.30	32.23	58.57	94.35	134.34	174.41
27	14. 3	33. 7	60. 0	95.53	135.55	176. 1
28	14.37	33.52	61. 4	97.11	137.15	177.21
29	15.10	34.38	62. 9	98.29	138.36	178.41
30	15.44	35.24	63.14	99.48	139.56	180. 0

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	220. 4	260.12	296.46	324.36	344.16
1	181.19	221.24	261.31	297.51	325.22	344.50
2	182.39	222.45	262.49	298.56	326. 8	345.23
3	183.59	224. 5	264. 7	300. 0	326.53	345.57
4	185.19	225.26	265.25	301. 3	327.37	346.30
5	186.39	226.47	266.43	302. 5	328.20	347. 3
6	187.58	228. 8	268. 0	303. 7	329. 3	347.36
7	189.18	229.29	269.16	304. 8	329.45	348. 8
8	190.38	230.50	270.33	305. 8	330.27	348.41
9	191.58	232.10	271.49	306. 8	331. 9	349.13
10	193.18	233.31	273. 5	307. 7	331.51	349.45
11	194.38	234.52	274.20	308. 5	332.32	350.17
12	195.58	236.13	275.35	309. 3	333.13	350.48
13	197.18	237.33	276.50	310. 0	333.53	351.20
14	198.38	238.54	278. 5	310.57	334.33	351.51
15	199.58	240.14	279.19	311.53	335.12	352.22
16	201.18	241.35	280.32	312.48	335.50	352.53
17	202.38	242.56	281.44	313.42	336.28	353.24
18	203.58	244.16	282.57	314.36	337. 6	353.55
19	205.18	245.37	284. 9	315.30	337.44	354.26
20	206.39	246.57	285.21	316.23	338.21	354.56
21	207.59	248.17	286.32	317.15	338.58	355.27
22	209.19	249.37	287.42	318. 7	339.34	355.58
23	210.40	250.57	288.52	318.58	340.11	356.28
24	212. 0	252.17	290. 2	319.48	340.47	356.59
25	213.21	253.36	291.11	320.37	341.23	357.29
26	214.41	254.56	292.19	321.26	341.58	358. 0
27	216. 2	256.15	293.26	322.14	342.33	358.30
28	217.22	257.34	294.33	323. 2	343. 7	359. 0
29	218.43	258.53	295.40	323.49	343.42	359.30
30	220. 4	260.12	296.46	324.36	344.16	360. 0

Tab. Aſcenſion. obliquarum Eclipticæ.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	15.18	34.34	62.12	98.58	139.30
1	0.29	15.51	35.20	63.18	100.17	140.52
2	0.58	16.25	36. 7	64.25	101.37	142.13
3	1.28	16.58	36.54	65.32	102.57	143.35
4	1.57	17.32	37.41	66.40	104.17	144.56
5	2.27	18. 6	38.29	67.48	105.37	146.17
6	2.56	18.41	39.18	68.57	106.57	147.39
7	3.26	19.17	40. 8	70. 6	108.18	149. 0
8	3.55	19.52	40.58	71.16	109.38	150.22
9	4.25	20.28	41.49	72.27	110.59	151.43
10	4.55	21. 4	42.40	73.38	112.20	153. 4
11	5.25	21.40	43.32	74.50	113.41	154.25
12	5.55	22.17	44.25	76. 2	115. 2	155.46
13	6.25	22.54	45.19	77.15	116.24	157. 7
14	6.55	23.31	46.13	78.28	117.45	158.28
15	7.25	24. 9	47. 8	79.42	119. 7	159.49
16	7.55	24.47	48. 3	80.56	120.28	161.10
17	8.26	25.26	48.59	82.11	121.49	162.31
18	8.56	26. 5	49.56	83.26	123.11	163.5[illegible]
19	9.27	26.45	50.54	84.42	124.32	165.13
20	9.58	27.26	51.52	85.58	125.54	166.33
21	10.29	28. 7	52.51	87.14	127.15	167.54
22	11. 0	28.48	53.51	88.31	128.37	169.15
23	11.32	29.30	54.51	89.48	129.58	170.36
24	12. 3	30.11	55.52	91. 5	131.20	171.57
25	12.35	30.53	56.54	92.23	132.42	173.17
26	13. 7	31.36	57.56	93.42	134. 4	174.38
27	13.40	32.20	58.59	95. 1	135.26	175.59
28	14.12	33. 4	60. 3	96.20	136.47	177.19
29	14.45	33.49	61. [illegible]	97.[illegible]9	138. 9	178.40
30	15.18	34.34	62.12	98.58	139.30	180. 0

		♎	♏	♐	♑	♒	♓
°		° '	° '	° '	° '	° '	° '
0		180. 0	220.30	261. 2	297.48	325.26	344.42
1		181.20	221.51	262.21	298.53	326.11	345.15
2		182.41	223.13	263.40	299.57	326.56	345.48
3		184. 1	224.34	264.59	301. 1	327.40	346.20
4		185.22	225.56	266.18	302. 4	328.24	346.53
5		186.43	227.18	267.37	303. 6	329. 7	347.25
6		188. 3	228.40	268.55	304. 8	329.49	347.57
7		189.24	230. 2	270.12	305. 9	332.39	348.28
8		190.45	231.23	271.29	306. 0	331.12	349. 0
9		192. 6	232.45	272.46	307. 9	331.53	349.31
10		193.27	234. 6	274. 2	308. 8	332.34	350. 2
11		194.47	235.28	275.18	309. 6	333.15	350.33
12		196. 8	236.49	276.34	310. 4	333.55	351. 4
13		197.29	238.11	277.49	311. 1	334.34	351.34
14		198.50	239.32	279. 4	311.57	335.13	352. 5
15		200.11	240.53	280.18	312.52	335.51	352.35
16		201.32	242.15	281.32	313.47	336.29	353. 5
17		202.53	243.36	282.45	314.41	337. 6	353.35
18		204.14	244.58	283.58	315.35	337.43	354. 5
19		205.35	246.19	285.10	316.28	338.20	354.35
20		206.56	247.40	286.22	317.20	338.56	355. 5
21		208.17	249. 1	287.33	318.11	339.32	355.35
22		209.38	250.22	288.44	319. 2	340. 8	356. 5
23		211. 0	251.42	289.54	319.52	340.43	356.34
24		212.21	253. 3	291. 3	320.42	341.19	357. 4
25		213.43	254.23	292.12	321.31	341.54	357.33
26		215. 4	255.43	293.20	322.19	342.28	358. 3
27		216.25	257. 3	294.28	323. 6	343. 2	358.32
28		217.47	258.23	295.35	323.53	343.35	359. 2
29		219. 8	259.43	296.42	324.40	344. 9	359.31
30		220.30	261. 2	297.48	325.26	344.42	360. 0

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	14.50	33.41	61. 7	98. 5	139. 3
1	0.28	15.23	34.26	62.13	99.25	140.25
2	0.56	15.56	35.12	63.20	100.46	141.47
3	1.25	16.29	35.58	64.27	102. 6	143.10
4	1.53	17. 2	36.45	65.35	103.27	144.32
5	2.22	17.35	37.33	66.43	104.48	145.54
6	2.50	18. 9	38.22	67.52	106. 9	147.17
7	3.19	18.43	39.12	69. 1	107.30	148.39
8	3.48	19.18	40. 1	70.11	108.52	150. 1
9	4.17	19.52	40.51	71.22	110.13	151.23
10	4.46	20.27	41.41	72.34	111.35	152.45
11	5.15	21. 2	42.32	73.46	112.57	154. 7
12	5.44	21.38	43.24	74.59	114.19	155.29
13	6.13	22.14	44.17	76.12	115.41	156.51
14	6.42	22.51	45.11	77.26	117. 3	158.13
15	7.11	23.28	46. 6	78.40	118.26	159.35
16	7.40	24. 6	47. 1	79.55	119.48	160.57
17	8.10	24.45	47.57	81.10	121.10	162.19
18	8.39	25.23	48.53	82.26	122.32	163.41
19	9. 9	26. 2	49.50	83.42	123.54	165. 3
20	9.39	26.41	50.48	84.59	125.17	166.24
21	10. 9	27.21	51.47	86.16	126.40	167.46
22	10.40	28. 2	52.47	87.34	128. 3	169. 8
23	11.10	28.42	53.47	88.51	129.26	170.29
24	11.41	29.23	54.48	90. 9	130.49	171.51
25	12.12	30. 4	55.49	91.27	132.11	173.12
26	12.43	30.46	56.51	92.46	133.34	174.34
27	13.15	31.29	57.54	94. 6	134.56	175.56
28	13.46	32.12	58.58	95.25	136.18	177.17
29	14.18	32.56	60. 2	96.45	137.40	178.39
30	14.50	33.41	61. 7	98. 5	139. 2	180. 0

		♎	♏	♐	♑	♒	♓
°		° ′	° ′	° ′	° ′	° ′	° ′
0		180. 0	220.58	261.55	298.53	326.19	345.10
1		181.21	222.20	263.15	299.58	327. 4	345.42
2		182.43	223.42	264.35	301. 2	327.48	346.14
3		184. 4	225. 4	265.54	302. 6	328.31	346.45
4		185.26	226.26	267.14	303. 9	329.14	347.17
5		186.48	227.49	268.33	304.11	329.56	347.48
6		188. 9	229.11	269.51	305.12	330.37	348.19
7		189.31	230.34	271. 9	306.13	331.18	348.50
8		190.52	231.57	272.26	307.13	331.58	349.20
9		192.14	233.20	273.44	308.13	332.39	349.51
10		193.36	234.43	275. 1	309.12	333.19	350.21
11		194.57	236. 6	276.18	310.10	333.58	350.51
12		196.19	237.28	277.34	311. 7	334.37	351.21
13		197.41	238.50	278.50	312. 3	335.15	351.50
14		199. 3	240.12	280. 5	312.59	335.54	352.20
15		200.25	241.34	281.20	313.54	336.32	352.49
16		201.47	242.57	282.34	314.49	337. 9	353.18
17		203. 9	244.19	283.48	315.43	337.46	353.47
18		204.31	245.41	285. 1	316.36	338.22	354.16
19		205.53	247. 3	286.14	317.28	338.58	354.45
20		207.15	248.25	287.26	318.19	339.33	355.14
21		208.37	249.47	288.38	319. 9	340. 8	355.43
22		209.59	251. 8	289.49	319.59	340.42	356.12
23		211.21	252.30	290.59	320.48	341.17	356.41
24		212.43	253.51	292. 8	321.38	341.51	357.10
25		214. 6	255.12	293.17	322.27	342.25	357.38
26		215.28	256.33	294.25	323.15	343.58	358. 7
27		216.50	257.54	295.33	324. 2	343.31	358.35
28		218. 3	259.14	296.40	324.48	344. 4	359. 4
29		219.35	260.35	297.47	325.34	344.37	359.32
30		220.58	261.55	298.53	326.19	345.10	360. 0

Tabula Aſcenſionum obliqvarum Eclipt.

		♈	♉	♊	♋	♌	♍
o		o /	o /	o /	o /	o /	o /
0		0. 0	14.22	32.45	59.59	97. 9	138.34
1		0.27	14.53	33.30	61. 5	98.30	139.58
2		0.55	15.25	34.15	62.11	99.51	141.21
3		1.22	15.57	35. 1	63.18	101.13	142.44
4		1.50	16.29	35.47	64.26	102.34	144. 7
5		2.18	17. 1	36.34	65.35	103.56	145.30
6		2.45	17.34	37.22	66.44	105.18	146.54
7		3.13	18. 8	38.10	67.54	106.40	148.17
8		3.40	18.41	38.59	69. 5	108. 3	149.40
9		4. 8	19.15	39.49	70.16	109.25	151. 3
10		4.36	19.49	40.39	71.28	110.48	152.26
11		5. 4	20.24	41.30	72.40	112.11	153.49
12		5.32	21. 0	42.22	73.53	113.34	[illegible]
13		6. 0	21.35	43.14	75. 6	114.57	156.35
14		6.28	22.10	44. 7	76.20	116.20	[illegible]
15		6.57	22.46	45. 1	77.35	117.44	159.2[illegible]
16		7.25	23.23	45.56	78.51	119. 7	160.44
17		7.54	24. 1	46.52	80. 7	120.30	162. 7
18		8.22	24.38	47.48	81.24	121.53	163.29
19		8.51	25.16	48.45	82.40	123.16	164.52
20		9.20	25.54	49.42	83.57	124.39	166.14
21		9.49	26.33	50.40	85.14	126. 2	167.37
22		10.19	27.13	51.39	86.32	127.26	169. 0
23		10.48	27.52	52.39	87.50	128.49	170.23
24		11.18	28.32	53.40	89. 9	130.13	171.46
25		11.48	29.12	54.41	90.28	131.37	173. [illegible]
26		12.18	29.53	55.43	91.48	133. 1	174.3[illegible]
27		12.49	30.35	56.46	93. 8	134.24	175.53
28		13.20	31.18	57.50	94.28	135.48	177.16
29		13.51	32. 1	58.54	95.48	137.11	178.38
30		14.22	32.45	59.59	97. 9	138.34	180. 0

	♎	♏	♐	♑	♒	♓
o	o /	o /	o /	o /	o /	o /
0	180. 0	221.26	262.51	300. 1	327.15	345.38
1	181.22	222.49	264.12	301. 6	327.59	346. 9
2	182.44	224.12	265.32	302.10	328.42	346.40
3	184. 7	225.36	266.52	303.14	329.25	347.11
4	185.29	226.59	268.12	304.17	330. 7	347.42
5	186.52	228.23	269.32	305.19	330.48	348.12
6	188.14	229.47	270.51	306.20	331.28	348.42
7	189.37	231.11	272.10	307.21	332. 8	349.12
8	191. 0	232.34	273.28	308.21	332.47	349.41
9	192.23	233.58	274.40	309.20	333.27	350.11
10	193.46	235.21	276. 3	310.18	334. 6	350.40
11	195. 8	236.44	277.20	311.15	334.44	351. 9
12	196.31	238. 7	278.36	312.12	335.22	351.3
13	197.53	239.30	279.53	313. 8	335.59	352.
14	199.16	240.53	281. 9	314. 4	336.37	352.3
15	200.39	242.16	282.25	314.59	337.14	353.
16	202. 2	243.40	283.40	315.53	337.50	353.3
17	203.25	245. 3	284.54	316.46	338.25	354.
18	204.48	246.26	2[illegible]6. 7	317.38	339. 0	354.2
19	206.11	247.49	[illegible]7.20	318.30	339.36	354.5
20	207.34	249.12	288.32	319.21	340.11	355.2
21	208.57	250.35	289.44	320.11	340.45	355.5
22	210.20	251.57	290.55	321. 1	341.19	356.2
23	211.43	253.20	292. 6	321.50	341.52	356.4
24	213. 6	254.42	293.16	322.38	342.26	357.1
25	214.30	256. 4	294.25	323.26	342.59	357.4
26	215.53	257.26	295.34	324.13	343.31	358.1
27	217.16	258.47	296.42	324.59	344. 3	358.3
28	218.39	260. 9	297.49	325.45	344.35	359.
29	220. 2	261.30	298.55	326.30	345. 7	359.3
30	221.26	262.51	300. 1	327.15	345.38	360.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	13.52	31.47	58.47	96.11	138. 4
1	0.26	14.22	32.31	59.53	97.33	139.29
2	0.53	14.53	33.15	61. 0	98.55	140.53
3	1.19	15.24	34. 0	62. 7	100.18	142.18
4	1.46	15.55	34.46	63.15	101.40	143.42
5	2.13	16.26	35.32	64.24	103. 3	145. 6
6	2.39	16.58	36.19	65.33	104.26	146.30
7	3. 6	17.31	37. 7	66.43	105.49	147.54
8	3.32	18. 3	37.55	67.55	107.12	149.18
9	3.59	18.36	38.44	69. 6	108.35	150.42
10	4.26	19. 9	39.33	70.18	109.58	152. 6
11	4.53	19.43	40.23	71.31	111.22	153.30
12	5.20	20.17	41.14	72.44	112.46	154.54
13	5.47	20.52	42. 6	73.58	114.10	156.18
14	6.14	21.26	42.59	75.12	115.34	157.42
15	6.42	22. 1	43.53	76.27	116.59	159. 6
16	7. 9	22.36	44.47	77.43	118.23	160.30
17	3.37	23.12	45.42	78.59	119.47	161.54
18	8. 4	23.49	46.28	80.16	121.11	163.17
19	8.32	24.26	47.35	81.33	122.35	164.41
20	9. 0	25. 4	48.32	82.51	123.59	166. 4
21	9.28	25.42	49.30	84. 9	125.23	167.28
22	9.57	26.21	50.29	85.27	126.48	168.52
23	10.26	27. 0	51.29	86.46	128.12	170.16
24	10.55	27.39	52.29	88. 6	129.37	171.40
25	11.24	28.19	53.30	89.26	131. 2	173. 3
26	11.53	28.59	54.32	90.47	132.27	174.27
27	12.23	29.40	55.35	92. 8	133.51	175.50
28	12.52	30.22	56.38	93.29	135.16	177.14
29	13.22	31. 4	57.42	94.50	136.40	178.37
30	13.52	31.47	58.47	96.11	138. 4	180. 0

		♎	♏	♐	♑	♒	♓
o		o ′	o ′	o ′	o ′	o ′	o ′
0		180. 0	221.56	263.49	301.13	328.13	346. 8
1		181.23	223.20	265.10	302.18	328.56	346.38
2		182.46	224.44	266.31	303.22	329.38	347. 8
3		184.10	226. 9	267.52	304.25	330.20	347.37
4		185.33	227.33	269.13	305.28	331. 1	348. 7
5		186.57	228.58	270.34	306.30	332.41	348.36
6		188.20	230.23	271.54	307.31	332.21	349. 5
7		189.44	231.48	273.14	308.31	333. 0	349.34
8		191. 8	233.12	274.33	309.31	333.39	350. 3
9		192.32	234.37	275.51	310.30	334.18	350.32
10		193.56	236. 1	277. 9	311.28	334.56	351. 0
11		195.19	237.25	278.27	312.25	335.34	351.28
12		196.43	238.49	279.44	313.22	336.11	351.56
13		198. 6	240.13	281. 1	314.18	336.48	352.23
14		199.30	241.37	282.17	315.13	337.24	352.51
15		200.54	243. 1	283.33	316. 7	337.59	353.18
16		202.18	244.26	284.48	317. 1	338.34	353.46
17		203.42	245.50	286. 2	317.54	339. 8	354.13
18		205. 6	247.14	287.16	318.46	339.43	354.40
19		206.30	248.38	288.29	319.37	340.17	355. 7
20		207.54	250. 2	289.42	320.27	340.51	355.34
21		209.18	251.25	290.54	321.16	341.24	356. 1
22		210.42	252.48	292. 5	322. 5	341.57	356.28
23		212. 6	254.11	293.17	322.53	342.29	356.54
24		213.30	255.34	294.27	323.41	343. 2	357.21
25		214.54	256.57	295.36	324.28	343.34	357.47
26		216.18	258.20	296.45	325.14	344. 5	358.14
27		217.42	259.42	297.53	326. 0	344.36	358.41
28		219. 7	261. 5	299. 0	326.45	345. 7	359. 7
29		220.31	262.27	300. 7	327.29	345.38	359.34
30		221.56	263.49	301.13	328.13	346. 8	360. 0

	♈	♉	♊	♋	♌	♍
o	o '	o '	o '	o '	o '	o '
0	0. 0	13.21	30.46	57.31	95.10	137.33
1	0.25	13.50	31.29	58.37	96.33	138.59
2	0.50	14.20	32.13	59.44	97.56	140.24
3	1.16	14.50	32.57	60.51	99.19	141.50
4	1.41	15.20	33.42	61.59	100.42	143.15
5	2. 7	15.50	34.27	63. 8	102. 6	144.40
6	2.32	16.21	35.13	64.18	103.30	146. 6
7	2.58	16.53	36. 0	65.29	104.54	147.31
8	3.24	17.24	36.48	66.40	106.18	148.56
9	3.50	17.56	37.36	67.52	107.42	150.21
10	4.16	18.28	38.25	69. 4	109. 7	151.46
11	4.42	19. 1	39.15	70.17	110.32	153.11
12	5. 8	19.34	40. 5	71.30	111.57	154.36
13	5.34	20. 7	40.56	72.44	113.22	156. 1
14	6. 0	20.40	41.48	73.59	114.47	157.26
15	6.26	21.14	42.41	75.15	116.12	158.50
16	6.52	21.49	43.35	76.32	117.37	160.15
17	7.19	22.25	44.30	77.50	119. 2	161.40
18	7.46	23. 1	45.25	79. 8	120.27	163. 5
19	8.13	23.37	46.21	80.25	121.52	164.30
20	8.40	24.13	47.18	81.43	123.18	165.54
21	9. 7	24.50	48.16	83. 2	124.43	167.19
22	9.35	25.28	49.14	84.21	126. 9	168.44
23	10.2	26. 6	50.13	85.41	127.35	170. 8
24	10.30	26.44	51.13	87. 1	129. 1	171.33
25	10.58	27.22	52.14	88.21	130.26	172.57
26	11.26	28. 1	53.16	89.42	131.52	174.22
27	11.55	28.41	54.19	91. 4	133.17	175.47
28	12.23	29.22	55.22	92.26	134.43	177.11
29	12.52	30. 4	56.26	93.48	136. 8	178.36
30	13.21	30.46	57.31	95.10	137.33	180. 0

Ad latitudinem loci 51. Grad.

		♎	♏	♐	♑	♒	♓
°		° ′	° ′	° ′	° ′	° ′	° ′
0		180. 0	222.27	264.50	302.29	329.14	346.39
1		181.34	223.52	266.12	303.34	329.56	347. 8
2		182.49	225.17	267.34	304.38	330.38	347.37
3		184.13	226.43	268.56	305.41	331.19	348. 5
4		185.38	228. 8	270.18	306.44	331.59	348.34
5		187. 3	229.34	271.39	307.46	332.38	349. 2
6		188.27	230.59	272.59	308.47	333.16	349.30
7		189.52	232.25	274.19	309.47	333.54	349.58
8		191.16	233.51	275.39	310.46	334.32	350.25
9		192.41	235.17	276.58	311.44	335.10	350.53
10		194. 6	236.42	278.17	312.42	335.47	351.20
11		195.30	238. 8	279.35	313.39	336.23	351.47
12		196.55	239.33	280.52	314.35	336.59	352.14
13		198.20	240.58	282.10	315.30	337.35	352.41
14		199.45	242.23	283.28	316.25	338.11	353. 8
15		201.10	243.48	284.45	317.19	338.46	353.34
16		202.34	245.13	286. 1	318.12	339.20	354. 0
17		203.59	246.38	287.16	319. 4	339.53	354.26
18		205.24	248. 3	288.30	319.55	340.26	354.52
19		206.49	249.28	289.43	320.45	340.59	355.18
20		208.14	250.53	290.56	321.35	341.32	355.44
21		209.39	252.18	292. 8	322.24	342. 4	356.10
22		211. 4	253.42	293.20	323.12	342.36	356.36
23		212.29	255. 6	294.31	324. 0	343. 7	357. 2
24		213.54	256.30	295.42	324.47	343.39	357.28
25		215.20	257.54	296.52	325.33	344.10	357.53
26		216.45	259.18	298. 1	326.18	344.40	358.19
27		218.10	260.41	299. 9	327. 3	345.10	358.44
28		219.36	262. 4	300.16	327.47	345.40	359.10
29		221. 1	263.27	301.23	328.31	346.10	359.35
30		222.27	264.50	302.29	329.14	346.39	360. 0

Tab. Aſcenſion. obliqvarum Eclipticæ.

		♈	♉	♊	♋	♌	♍
°		° ′	° ′	° ′	° ′	° ′	° ′
1		0.25	13.20	30.31	57.26	95.36	138.31
2		0.49	13.48	31.13	58.32	97. 0	139.57
3		1.14	14.17	31.57	59.39	98.24	141.23
4		1.38	14.46	32.41	60.48	99.49	142.49
5		2. 3	15.16	33.25	61.56	101.13	144.15
6		2.27	15.46	34.10	63. 7	102.38	145.42
7		2.51	16.16	34.56	64.17	104. 3	147. 8
8		3.17	16.47	35.43	65.28	105.28	148.34
9		3.41	17.17	36.31	66.40	106.53	150. 0
10		4. 6	17.48	37.19	67.53	108.19	151.26
11		4.31	18.20	38. 8	69. 7	109.45	152.52
12		4.57	18.52	38.58	70.21	111.10	154.18
13		5.21	19.25	39.48	71.36	112.36	155.43
14		5.47	19.57	40.40	72.52	114. 2	157. 9
15		6.12	20.30	41.32	74. 8	115.28	158.36
16		6.37	21. 4	42.26	75.24	116.55	160. 1
17		7. 3	21.38	43.20	76.42	118.21	161.27
18		7.28	22.12	44.15	78. 0	119.48	162.53
19		7.54	22.47	45.11	79.18	121.14	164.19
20		8.20	23.23	46. 7	80.37	122.40	165.44
21		8.46	23.59	47. 4	81.57	124. 7	167. 9
22		9.14	24.36	48. 2	83.17	125.33	168.35
23		9.40	25.13	49. 1	84.38	127. 0	170. 1
24		10. 6	25.50	50. 1	85.58	128.26	171.27
25		10.33	26.29	51. 2	87.21	129.52	172.53
26		11. 1	27. 7	52. 4	88.43	131.18	174.18
27		11.27	27.46	53. 7	90. 5	132.45	175.44
28		11.55	28.26	54.10	91.27	134.12	177. 9
29		12.23	29. 8	55.14	92.49	135.38	178.35
30		12.52	29.49	56.19	94.13	137. 4	180. 0

	♎	♏	♐	♑	♒	♓
o	o /	o /	o /	o /	o /	o /
1	181.25	224.22	267.11	304.46	330.52	347.37
2	182.51	225.48	268.33	305.50	331.34	348. 5
3	184.16	227.15	269.55	306.53	332.14	348.3[illegible]
4	185.42	228.42	271.17	307.56	332.53	348.59
5	187. 7	230. 8	272.39	308.58	333.31	349.27
6	188.33	231.34	274. 2	309.59	334.10	349.54
7	189.59	233. 0	275.22	310.59	334.47	350.20
8	191.25	234.27	276.43	311.58	335.24	350.56
9	192.51	235.53	278. 3	312.56	336. 1	351.14
10	194.16	237.20	279.23	313.53	336.37	351.40
11	195.41	238.46	280.42	314.49	337.13	352. 6
12	197. 7	240.12	282. 0	315.45	337.48	352.32
13	198.33	241.39	283.18	316.40	338.22	352.57
14	199.59	243. 5	284.36	317.34	338.56	353.23
15	201.24	244.32	285.52	318.28	339.30	353.48
16	202.51	245.58	287. 8	319.20	340. 3	354.13
17	204.17	247.24	288.24	320.12	340.35	354.39
18	205.42	248.50	289.39	321. 2	341. 8	355. 3
19	207. 8	250.15	290.53	321.52	341.40	355.29
20	208.34	251.41	29[illegible]. 7	322.41	342.12	355.54
21	210. 0	253. 7	293.20	323.29	342.43	356.19
22	211.26	254.32	294.32	324.17	343.13	356.43
23	212.52	255.57	295.43	325. 4	343.44	357. 9
24	214.18	257.22	296.53	325.50	344.14	357.33
25	215.45	258.47	298. 4	326.35	344.44	357.57
26	217.11	260.11	299.12	327.19	345.14	358.22
27	218.37	261.36	300.21	328. 3	345.43	358.46
28	220. 3	263. 0	301.28	328.47	346.12	359.11
29	221.29	264.24	302.34	329.29	346.40	359.35
30	222.56	265.47	303.41	330.11	347. 8	360. 0

Tab. Aſcenſ. obliquarum Eclipticæ.

°	♈ ° ′	♉ ° ′	♊ ° ′	♋ ° ′	♌ ° ′	♍ ° ′
0	0.0	12.48	29.42	56.11	94.6	137.10
1	0.24	13.16	30.24	57.17	95.30	138.37
2	0.48	13.45	31.7	58.24	96.54	139.54
3	1.13	14.14	31.50	59.31	98.18	141.20
4	1.37	14.43	32.34	60.39	99.42	142.47
5	2.2	15.12	33.18	61.48	101.7	144.13
6	2.26	15.42	34.3	62.58	102.32	145.40
7	2.51	16.13	34.49	64.9	103.57	147.6
8	3.15	16.43	35.36	65.20	105.[illegible]	148.32
9	3.40	17.14	36.24	66.32	106.47	149.58
10	4.5	17.45	37.12	67.45	108.12	151.24
11	4.30	18.16	38.1	68.59	109.38	152.50
12	4.55	18.48	38.51	70.13	111.4	154.16
13	5.20	19.20	39.42	71.28	112.30	155.42
14	5.45	19.52	40.34	72.44	113.56	157.8
15	6.10	20.25	41.26	74.9	115.23	158.34
16	6.35	20.59	42.19	75.17	116.49	160.0
17	7.1	21.34	43.13	76.34	118.15	161.26
18	7.26	22.8	44.8	77.52	119.42	162.52
19	7.52	22.43	4[illegible].3	79.11	121.8	164.18
20	8.18	23.18	45.59	80.39	122.35	165.49
21	8.44	23.54	46.56	81.50	124.2	167.9
22	9.11	24.31	47.54	83.10	125.28	168.35
23	9.37	25.8	48.53	84.31	126.55	170.1
24	10.4	25.45	49.53	85.51	128.22	171.27
25	10.31	26.23	50.54	87.12	129.48	172.52
26	10.58	27.2	51.56	88.34	131.15	174.18
27	11.25	27.41	52.59	89.57	132.41	175.44
28	11.53	28.21	54.2	91.20	134.8	177.9
29	12.20	29.1	55.6	92.43	135.34	178.35
30	12.48	29.42	56.11	94.6	137.0	180.0

	♎	♏	♐	♑	♒	♓
	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	223. 0	265.54	303.49	330.18	347.12
1	181.25	224.26	267.17	304.54	330.59	347.40
2	182.51	225.52	268.40	305.58	331.39	348. 7
3	184.16	227.19	270. 3	307. 1	332.19	348.35
4	185.42	228.45	271.26	308. 4	332.58	349. 2
5	187. 8	230.12	272.48	309. 6	333.37	349.29
6	188.33	231.38	274. 9	310. 7	334.15	349.56
7	189.59	233. 5	275.29	311. 7	334.52	350.23
8	191.25	234.32	276.50	312. 6	335.29	350.49
9	192.51	235.58	278.10	313. 4	336. 6	351.16
10	194.17	237.25	279.30	314. 1	336.42	351.42
11	195.42	238.52	280.49	314.57	337.17	352. 8
12	197. 8	240.18	282. 8	315.52	337.52	352.34
13	198.34	241.45	283.26	316.47	338.26	352.59
14	200. 0	243.11	284.43	317.41	339. 1	353.25
15	201.26	244.37	286. 0	318.34	339.35	353.50
16	202.52	246. 4	287.16	319.26	340. 8	354.15
17	204.18	247.30	288.32	320.18	340.40	354.40
18	205.44	248.56	289.47	321. 9	341.12	355. 5
19	207.10	250.22	291. 1	321.59	341.44	355.30
20	208.36	251.48	292.15	322.48	342.15	355.55
21	210. 2	253.13	293.28	323.36	342.46	356.20
22	211.28	254.38	294.40	324.24	343.17	356.45
23	212.54	256. 3	295.51	325.11	343.47	357. 9
24	214.20	257.28	297. 2	325.57	344.18	357.34
25	215.47	258.53	298.12	326.42	344.48	357.58
26	217.13	260.18	299.21	327.26	345.17	358.23
27	218.40	261.42	300.29	328.10	345.46	358.47
28	220. 6	263. 6	301.36	328.53	346.15	359.12
29	221.33	264.30	302.43	329.36	346.44	359.36
30	223. 0	265.54	303.49	330.18	347.12	360. 0

	♈	♉	♊	♋	♌	♍
o	o /	o /	o /	o /	o /	o /
0	0. 0	12.14	28.34	54.46	92.58	136.26
1	0.23	12.41	29.15	55.52	94.23	137.54
2	0.46	13. 8	29.57	56.59	95.48	139.22
3	1. 9	13.36	30.39	58. 6	97.13	140.49
4	1.32	14. 4	31.22	59.14	98.38	142.17
5	1.56	14.32	32. 6	60.23	100. 4	143.44
6	2.19	15. 1	32.51	61.33	101.30	145.12
7	2.43	15.30	33.36	62.44	102.56	146.39
8	3. 6	15.59	34.22	63.56	104.22	148. 7
9	3.30	16.29	35. 8	65. 9	105.48	149.34
10	3.54	16.59	35.55	66.22	107.15	151. [illegible]
11	4.17	17.29	36.43	67.36	108.42	152.29
12	4.41	18. 0	37.32	68.51	110. 9	153.56
13	5. 5	18.31	38.22	70. 6	111.36	155.23
14	5.29	19. 2	39.13	71.22	113. 4	156.50
15	5.53	19.34	40. 4	72.39	114.32	158.17
16	6.17	20. 7	40.57	73.57	115.59	159.44
17	6.41	20.40	41.50	75.15	117.26	161.11
18	7. 5	21.13	42.44	76.34	118.54	162.38
19	7.30	21.47	43.39	77.53	120.21	164. 5
20	7.55	22.21	44.36	79.13	121.49	165.32
21	8.20	22.56	45.33	80.34	123.17	166.59
22	8.45	23.31	46.31	81.55	124.45	168.26
23	9.10	24. 7	47.30	83.16	126.13	169.53
24	9.36	24.43	48.29	84.38	127.41	171.20
25	10. 2	25.20	49.29	86. 0	129. 8	172.46
26	10.28	25.58	50.30	87.22	130.36	174.13
27	10.54	26.36	51.32	88.45	132. 4	175.40
28	11.20	27.15	52.35	90. 9	133.31	177. 7
29	11.47	27.54	53.40	91.33	134.59	178.34
30	12.14	28.34	54.46	92.58	136.26	180. 0

Ad latitudinem loci 53. graduum.

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	223.34	267. 2	305.14	331.26	347.46
1	181.26	225. 1	268.27	306.20	332. 6	348.13
2	182.53	226.29	269.51	307.25	332.45	348.40
3	184.20	227.56	271.15	308.28	333.24	349. 6
4	185.47	229.24	272.38	309.30	334. 2	349.32
5	187.14	230.52	274. 0	310.31	334.40	349.58
6	188.40	232.19	275.22	311.31	335.17	350.24
7	190. 7	233.47	276.44	312.30	335.53	350.50
8	191.34	235.15	278. 5	313.29	336.29	351.15
9	193. 1	236.43	279.26	314.27	337. 4	351.40
10	194.28	238.11	280.47	315.24	337.39	352. 5
11	196.55	239.39	282. 7	316.21	338.13	352.30
12	197.22	241. 6	283.26	317.16	338.47	352.55
13	198.49	242.34	284.45	318.10	339.20	353.19
14	200.16	244. 1	286. 3	319. 3	339.53	353.43
15	201.43	245.28	287.21	319.55	340.26	354. 7
16	203.10	246.56	288.38	320.47	340.58	354.31
17	204.37	248.24	289.54	321.38	341.29	354.55
18	206. 4	249.51	291. 9	322.28	342. 0	355.19
19	207.31	251.18	292.24	323.17	342.31	355.43
20	208.59	252.45	293.38	324. 5	343. 1	356. 6
21	210.26	254.12	294.51	324.52	343.31	356.30
22	211.53	255.38	296. 4	325.38	344. 1	356.54
23	213.21	257. 4	297.16	326.24	344.30	357.17
24	214.48	258.30	298.27	327. 9	344.59	357.41
25	216.16	259.56	299.37	327.54	345.28	358. 4
26	217.43	261.22	300.46	328.38	345.56	358.28
27	219.11	262.47	301.54	329.21	346.24	358.51
28	220.38	264.12	303. 1	330. 3	346.52	359.14
29	222. 6	265.37	304. 8	330.45	347.19	359.37
30	223.34	267. 2	305.14	331.26	347.46	360. 0

Tabula aſcenſionum obliqvarum Ecl.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	11.38	27.22	53.14	91.46	135.50
1	0.22	12. 4	28. 2	54.21	93.12	137.19
2	0.44	12.30	28.43	55.28	94.38	138.48
3	1. 6	12.56	29.24	56.36	96. 4	140.17
4	1.28	13.23	30. 6	57.44	97.31	141.46
5	1.50	13.50	30.49	58.53	98.58	143.14
6	2.12	14.18	31.32	60. 3	100.25	144.43
7	2.34	14.46	32.16	61.14	101.52	146.12
8	2.57	15.14	33. 1	62.26	103.19	147.41
9	3.19	15.42	33.47	63.39	104.47	149.10
10	3.42	16.11	34.33	64.53	106.15	150.38
11	4. 4	16.40	35.20	66. 8	107.43	152. 7
12	4.27	17. 9	36. 8	67.23	109.11	153.3[illegible]
13	4.49	17.38	36.57	68.39	110.40	155.[illegible]
14	5.12	18. 8	37.48	69.56	112.[illegible]	156.3[illegible]
15	5.35	18.39	38.39	71.13	113.37	157.[illegible]
16	5.58	19.11	39.31	72.31	115.[illegible]	159.2[illegible]
17	6.21	19.43	40.24	73.50	116.34	160.5[illegible]
18	6.44	20.15	41.18	75.10	118. 3	162.2[illegible]
19	7. 8	20.48	42.12	76.30	119.3[illegible]	16[illegible]
20	7.32	21.21	43. 7	77.51	121.[illegible]	165.20
21	7.56	21.54	44. 3	79.13	122.30	166.48
22	8.20	22.28	45. 0	80.35	123.59	168.16
23	8.44	23. 3	45.58	81.57	125.28	169.44
24	9. 8	23.38	46.58	83.20	126.57	171.12
25	9.32	24.14	47.59	84.43	128.26	172.40
26	9.57	24.50	49. 0	86. 6	129.55	174. 8
27	10.22	25.27	50. 2	87.30	131.24	175.36
28	10.47	26. 5	51. 5	88.55	132.53	177. 4
29	11.12	26.43	52. 9	90.20	134.22	178.32
30	11.38	27.22	53.14	91.46	135.50	180. 0

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	224.10	268.14	306.46	332.38	348.22
1	181.28	225.38	269.40	307.51	333.17	348.4
2	182.56	227. 7	271. 5	308.55	333.55	349.13
3	184.24	228.36	272.30	309.58	334.33	349.38
4	185.52	230. 5	273.54	311. 0	335.10	350. 3
5	187.20	231.34	275.17	312. 1	335.46	350.28
6	188.48	233. 3	276.40	313. 2	336.22	350.52
7	190.16	234.32	278. 3	314. 2	336.57	351.16
8	191.44	236. 1	279.25	315. 0	337.32	351.40
9	193.12	237.30	280.47	315.57	338. 6	352. 4
10	194.40	238.59	282. 9	316.53	338.39	352.2
11	196. 8	240.28	283.30	317.48	339.12	352.52
12	197.36	241.57	284.50	318.42	339.45	353.16
13	199. 4	243.26	286.10	319.36	340.17	353.39
14	200.32	244.55	287.29	320.29	340.49	354. 2
15	202. 1	246.23	288.47	321.21	341.21	354.25
16	203.29	247.52	290. 4	322.12	341.52	354.48
17	204.57	249.20	291.21	323. 3	342.22	355.11
18	206.25	250.49	292.37	323.52	342.51	355.3
19	207.53	252.17	293.52	324.40	343.20	355.5
20	209.22	253.45	295. 7	325.27	343.49	356.1
21	210.50	255.13	296.21	326.13	344.18	356.4
22	212.19	256.41	297.34	326.59	344.46	357.
23	213.48	258. 8	298.46	327.44	345.14	357.2
24	215.17	259.35	299.57	328.28	345.42	357.4
25	216.46	261. 2	301. 7	329.11	346.10	358.1
26	218.14	262.29	302.16	329.54	346.37	358.3
27	219.43	263.56	303.24	330.36	347. 4	358.5
28	221.12	265.22	304.32	331.17	347.30	359.1
29	222.41	266.48	305.39	331.58	347.56	359.3
30	224.10	268.14	306.46	332.38	348.22	360.

	♈	♉	♊	♋	♌	♍
o	o '	o '	o '	o '	o '	o '
0	0. 0	11. 1	26. 6	51.37	90.30	135.13
1	0.20	11.25	26.44	52.42	91.57	136.43
2	0.41	11.50	27.23	53.49	93.24	138.13
3	1. 2	12.15	28. 3	54.57	94.52	139.43
4	1.23	12.40	28.44	56. 6	96.20	141.13
5	1.44	13. 6	29.26	57.16	97.48	142.43
6	2. 5	13.32	30. 8	58.27	99.16	144.13
7	2.26	13.59	30.51	59.39	100.44	145.43
8	2.4[illegible]	14.26	31.35	60.52	102.13	147.13
9	3. 8	14.53	32.20	62. 5	103.42	148.43
10	3.30	15.20	33. 6	63.19	105.11	150.13
11	3.51	15.48	33.53	64.34	106.40	151.42
12	4.12	16.16	34.41	65.50	108.10	153.12
13	4.34	16.44	35.29	67. 7	109.40	154.42
14	4.55	17.13	36.18	68.24	111.10	156.11
15	5.17	17.42	37. 8	69.42	112.40	157.41
16	5.39	18.12	37.59	71. 1	114.10	159.11
17	6. 1	18.43	38.51	72.21	115.40	160.39
18	6.23	19.14	39.44	73.41	117.10	162.10
19	6.45	19.45	40.38	75. 2	118.40	163.38
20	7. 7	20.17	41.33	76.24	120.10	165. 8
21	7.29	20.49	42.29	77.46	121.40	166.38
22	7.52	21.22	43.26	79. 8	123.11	168. 7
23	8.15	21.55	44.24	80.31	124.42	169.36
24	8.38	22.29	45.23	81.55	126.12	171. 5
25	9. 1	23. 4	46.22	83.20	127.42	172.34
26	9.25	23.39	47.23	84.45	129.13	174. 4
27	9.49	24.15	48.25	86.11	130.43	175.33
28	10.13	24.51	49.28	87.37	132.13	177. 2
29	10.37	25.28	50.32	89. 3	133.43	178.31
30	11. 1	26. 6	51.37	90.30	135.13	180. 0

		♎	♏	♐	♑	♒	♓
°		° '	° '	° '	° '	° '	° '
0		180. 0	224.47	269.30	308.23	333.54	348.59
1		181.29	226.17	270.57	309.28	334.32	349.23
2		182.58	227.47	272.23	310.32	335. 9	349.47
3		184.27	229.17	273.49	311.35	335.45	350.11
4		185.56	230.47	275.15	312.37	336.21	350.35
5		187.26	232.18	276.40	313.38	336.56	350.59
6		188.55	233.48	278. 5	314.37	337.31	351.22
7		190.24	235.18	279.29	315.36	338. 5	351.45
8		191.53	236.49	280.52	316.34	338.38	352. 8
9		193.22	238.20	282.14	317.31	339.11	352.31
10		194.52	239.50	283.36	318.27	339.4[illegible]	352.53
11		196.22	241.20	284.58	319.22	340.15	353.[illegible]
12		197.50	242.50	286.19	320.16	340.46	353.37
13		199.21	244.20	287.39	321. 9	341.17	353.59
14		200.4[illegible]	245.50	288.59	322. 1	341.48	354.2[illegible]
15		202.19	247.20	290.18	322.52	342.18	354.4[illegible]
16		203.49	248.50	291.36	323.42	342.47	355.[illegible]
17		205.18	250.20	292.53	324.31	343.16	355.2[illegible]
18		206.48	251.50	294.10	325.19	343.44	355.4[illegible]
19		208.18	253.20	295.26	326. 7	344.12	356. [illegible]
20		209.47	254.49	296.41	326.54	344.40	356.3[illegible]
21		211.17	256.18	297.55	327.40	345. 7	356.5[illegible]
22		212.47	257.47	299. 8	328.25	345.34	357.1[illegible]
23		214.17	259.16	300.21	329. 9	346. 1	357.3[illegible]
24		215.47	260.44	301.33	329.52	346.28	357.5[illegible]
25		217.17	262.12	302.44	330.34	346.54	358.1[illegible]
26		218.47	263.40	303.54	391.16	347.20	358.3[illegible]
27		220.17	265. 8	305. 3	331.57	347.45	358.5[illegible]
28		221.47	266.36	306.11	332.37	348.10	359.1[illegible]
29		223.17	268. 3	307.18	333.16	348.35	359.4[illegible]
30		224.47	269.30	308.23	333.54	348.59	360.

G.	♈	♉	♊	♋	♌	♍
	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	10.21	24.44	49.52	89. 8	134.33
1	0.19	10.44	25.21	50.58	90.37	136. 5
2	0.39	11. 7	25.59	52. 5	92. 6	137.36
3	0.58	11.31	26.38	53.13	93.35	139. 8
4	1.18	11.55	27.18	54.22	95. 4	140.39
5	1.38	12.19	27.59	55.32	96.33	142.10
6	1.57	12.44	28.40	56.43	98. 3	143.42
7	2.17	13. 9	29.22	57.55	99.33	145.13
8	2.37	13.34	30. 5	59. 8	101. 3	146.45
9	2.57	14. 0	30.48	60.22	102.33	148.16
10	3.17	14.26	31.32	61.37	104. 3	149.47
11	3.37	14.52	32.17	62.53	105.34	151.18
12	3.57	15.19	33. 3	64. 9	107. 5	152.49
13	4.17	15.46	33.50	65.26	108.36	154.2[illegible]
14	4.37	16.13	34.39	66.44	110. 7	155.5[illegible]
15	4.57	16.41	35.29	68. 3	111.39	157.2[illegible]
16	5.17	17.10	36.20	69.23	113.10	158.5[illegible]
17	5.38	17.39	37.12	70.44	114.41	160.2[illegible]
18	5.59	18. 9	38. 4	72. 5	116.12	161.5[illegible]
19	6.20	18.39	38.57	73.27	117.44	163.2[illegible]
20	6.41	19. 9	39.51	74.50	119.16	164.5[illegible]
21	7. 2	19.40	40.46	76.13	120.48	166.26
22	7.23	20.12	41.42	77.37	122.20	167.57
23	7.45	20.44	42.39	79. 2	123.52	169.27
24	8. 6	21.16	43.38	80.27	125.24	170.5[illegible]
25	8.28	21.49	44.38	81.53	126.55	172.2[illegible]
26	8.50	22.22	45.39	83.19	128.27	173.59
27	9.13	22.56	46.41	84.46	129.59	175.29
28	9.35	23.31	47.44	86.13	131.30	177. 0
29	9.58	24. 7	48.48	87.40	133. 2	178.30
30	10.21	24.44	49.52	89. 8	134.33	180. 0

Ad latitudinem loci 56. graduum.

G	♎	♏	♐	♑	♒	♓
	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	225.27	270.52	310. 8	335.16	349.39
1	181.30	226.58	272.20	311.12	335.53	350. 2
2	183. 0	228.30	273.47	312.16	336.29	350.25
3	184.31	230. 1	275.14	313.19	337. 4	350.47
4	186. 1	231.33	276.41	314.21	337.38	351.10
5	187.32	233. 5	278. 7	315.22	338.11	351.32
6	189. 2	234.36	279.33	316.22	338.44	351.54
7	190.33	236. 8	280.58	317.21	339.16	352.15
8	192. 3	237.40	282.23	318.18	339.48	352.37
9	193.34	239.12	283.47	319.14	340.20	352.58
10	195. 5	240.44	285.10	320. 9	340.51	353.19
11	196.35	242.16	286.33	321. 3	341.21	353.40
12	198. 6	243.48	287.55	321.56	341.51	354. 1
13	199.37	245.19	289.16	322.48	342.21	354.22
14	201. 8	246.50	290.37	323.40	342.50	354.43
15	202.39	248.21	291.57	324.31	343.19	355. 3
16	204. 9	249.53	293.16	325.21	343.47	355.2
17	205.40	251.24	294.34	326.10	344.14	355.4
18	207.11	252.55	295.51	326.57	344.41	356.
19	208.42	254.26	297. 7	327.43	345. 8	356.2
20	210.13	255.57	298.23	328.28	345.34	356.4
21	211.44	257.27	299.38	329.12	346. 0	357.
22	213.15	258.57	300.52	329.55	346.26	357.2
23	214.47	260.27	302. 5	330.38	346.51	357.4
24	216.18	261.57	303.17	331.20	347.16	358.
25	217.50	263.27	304.28	332. 1	347.41	358.2
26	219.21	264.56	305.38	332.42	348. 5	358.4
27	220.52	266.25	306.47	333.22	348.29	359.
28	222.24	267.54	307.55	334. 1	348.53	359.2
29	223.55	269.23	309. 2	334.39	349.16	359.4
30	225.27	270.52	310. 8	335.16	349.39	360.

Tab. Aſcenſ. obliqvarum Eclipt.

		♈	♉	♊	♋	♌	♍
°	ʺ	° ′	° ′	° ′	° ′	° ′	° ′
0		0. 0	9.39	23.17	47.58	87.41	133.51
1		0.18	10. 0	23.53	49. 5	89.11	135.24
2		0.36	10.22	24.30	50.12	90.41	136.57
3		0.54	10.44	25. 7	51.20	92.11	138.30
4		1.12	11. 6	25.45	52.29	93.42	140. 3
5		1.31	11.29	26.24	53.39	95.13	141.35
6		1.49	11.52	27. 4	54.49	96.44	143. 8
7		2. 7	12.16	27.45	56. 2	98.15	144.41
8		2.26	12.40	28.27	57.15	99.47	146.14
9		2.44	13. 4	29. 9	58.30	101.19	147.47
10		3. 3	13.29	29.52	59.46	102.51	149.19
11		3.21	13.54	30.36	61. 3	104.23	150.52
12		3.40	14.19	31.21	62.20	105.56	152.24
13		3.59	14.45	32. 7	63.38	107.29	153.57
14		4.18	15.11	32.54	64.57	109. 2	155.29
15		4.37	15.37	33.43	66.17	110.35	157. 1
16		4.56	16. 4	34.33	67.38	112. 7	158.33
17		5.15	16.32	35.24	69. 0	113.40	160. 5
18		5.34	17. 0	36.15	70.23	115.13	161.37
19		5.53	17.28	37. 7	71.46	116.46	163. 9
20		6.13	17.57	38. 0	73.10	118.19	164.41
21		6.33	18.26	38.55	74.34	119.52	166.13
22		6.53	18.56	39.51	75.59	121.24	167.45
23		7.13	19.26	40.48	77.25	122.58	169.17
24		7.33	19.57	41.46	78.51	124.31	170.49
25		7.53	20.29	42.45	80.18	126. 5	172.21
26		8.14	21. 1	43.46	81.46	127.39	173.53
27		8.35	21.34	44.48	83.14	129.12	175.25
28		8.56	22. 8	45.51	84.43	130.45	176.57
29		9.17	22.42	46.54	86.12	132.18	178.29
30		9.39	23.17	47.58	87.41	133.51	180. 0

Ad latitudinem loci 57. Graduum.

	♎	♏	♐	♑	♒	♓
°	° ′	° ′	° ′	° ′	° ′	° ′
0	180. 0	226. 9	272.19	312. 2	336.43	350.2
1	181.31	227.42	273.48	313. 6	337.18	350.4
2	183. 3	229.15	275.17	314. 9	337.52	351.
3	184.35	230.48	276.46	315.12	338.26	351.2
4	186. 7	232.21	278.14	316.14	338.59	351.4
5	187.39	233.55	279.42	317.15	339.31	352.
6	189.11	235.29	281. 9	318.14	340. 3	352.0
7	190.43	237. 2	282.35	319.12	340.34	352.4
8	192.15	238.35	284. 1	320. 9	341. 4	353.
9	193.47	240. 8	285.26	321. 5	341.34	353.2
10	195.19	241.41	286.50	322. 0	342. 3	353.4
11	196.51	243.14	288.14	322.53	342.32	354.
12	198.23	244.47	289.37	323.45	343. 0	354.2
13	199.55	246.20	291. 0	324.36	343.28	354.4
14	201.27	247.53	292.22	325.27	343.56	355.
15	202.59	249.25	293.43	326.17	344.23	355.2
16	204.31	250.58	295. 3	327. 6	344.49	355.4
17	206. 3	252.31	296.22	327.53	345.15	356.
18	207.36	254. 4	297.40	328.39	345.41	356.2
19	209. 8	255.37	298.57	329.24	346. 6	356.3
20	210.41	257. 9	300.14	330. 8	346.31	356.5
21	212.13	258.41	301.30	330.51	346.56	357.1
22	213.46	260.13	302.45	331.33	347.20	357.3
23	215.19	261.45	303.58	332.15	347.44	357.5
24	216.52	263.16	305.10	332.56	348. 8	358.
25	218.25	264.47	306.21	333.36	348.31	358.
26	219.57	266.18	307.31	334.15	348.54	358.
27	221.30	267.49	308.40	334.53	349.16	359.
28	223. [illegible]	269.19	309.48	335.30	349.38	359.
29	224.36	270.49	310.55	336. 7	350. 0	359.
30	226. 9	272.19	312. 2	336.43	350.21	360.

Tab. Aſcenſ. obliqvarum Eclipt.

		♈	♉	♊	♋	♌	♍
°		° ′	° ′	° ′	° ′	° ′	° ′
0		0. 0	8.54	21.43	45.54	86. 7	133. 6
1		0.16	9.14	22.17	47. 0	87.38	134.41
2		0.33	9.34	22.52	48. 7	89.10	136.15
3		0.50	9.55	23.28	49.15	90.42	137.50
4		1. 7	10.16	24. 5	50.25	92.14	139.[illegible]4
5		1.24	10.37	24.43	51.36	93.47	140.58
6		1.40	10.59	25.21	52.48	95.20	142.3[illegible]
7		1.57	11.21	26. 0	54. 1	96.53	144. 7
8		2.14	11.43	26.40	55.16	98.26	145.41
9		2.31	12. 5	27.21	56.31	99.59	147.15
10		2.48	12.28	28. 3	57.47	101.33	148.49
11		3. 5	12.51	28.46	59. 4	103. 7	150.23
12		3.22	13.15	29.30	60.22	104.41	151.57
13		3.40	13.39	30.15	61.41	106.26	153.[illegible]1
14		3.57	14. 3	31. 1	63. 1	107.51	155. 5
15		4.15	14.28	31.48	64.22	109.26	156.39
16		4.32	14.53	32.36	65.44	111. 0	158.13
17		4.50	15.19	33.25	67. 7	112.34	159.46
18		5. 7	15.45	34.16	68.31	114. 9	161.20
19		5.25	16.12	35. 8	69.56	115.43	162.55
20		5.43	16.39	36. 1	7[illegible].21	117.18	164.26
21		6. 1	17. 7	36.55	72.47	118.53	166. 0
22		6.20	17.35	37.50	74.14	120.28	167.3[illegible]
23		6.38	18. 4	38.46	75.41	122. 3	169. 7
24		6.57	18.33	39.43	77. 9	123.38	170.4[illegible]
25		7.16	19. 3	40.42	78.37	125.13	172.14
26		7.35	19.33	41.42	80. 6	126.48	173.48
27		7.54	20. 4	42.43	81.36	128.23	175.21
28		8.14	20.36	43.45	83. [illegible]	129.57	176.54
29		8.34	21. 9	44.49	84.36	131.32	178.27
30		8.54	21.43	45.54	86. 7	133. 6	180. 0

		♎	♏	♐	♑	♒	♓
°		° ′	° ′	° ′	° ′	° ′	° ′
0		180. 0	226.54	273.53	314. 6	338.17	351. 6
1		181.33	228.28	275.24	315.11	338.51	351.26
2		183. 6	230. 3	276.54	316.15	339.24	351.46
3		184.39	231.37	278.24	317.17	339.56	352. 6
4		186.12	233.12	279.54	318.18	340.27	352.25
5		187.46	234.47	281.23	319.18	340.57	352.44
6		189.19	236.22	282.51	320.17	341.27	353. 3
7		190.53	237.57	284.19	321.14	341.56	353.22
8		192.26	239.32	285.46	322.10	342.25	353.40
9		194. 0	241. 7	287.13	323. 5	342.53	353.59
10		195.34	242.42	288.39	323.59	343.21	354.17
11		197. 7	244.17	290. 4	324.52	343.48	354.35
12		198.40	245.51	291.29	325.44	344.15	354.53
13		200.14	247.26	292.53	326.35	344.41	355.10
14		201.47	249. 0	294.16	327.24	345. 7	355.28
15		203.21	250.34	295.38	328.12	345.32	355.45
16		204.55	252. 9	296.59	328.59	345.57	356. 3
17		206.29	253.44	298.19	329.45	346.21	356.20
18		208. 3	255.18	299.38	330.30	346.45	356.38
19		209.37	256.53	300.56	331.14	347. 9	356.55
20		211.11	258.27	302.13	331.57	347.32	357.12
21		212.45	260. 1	303.29	332.39	347.55	357.29
22		214.19	261.34	304.44	333.10	348.17	357.46
23		215.53	263. 7	305.59	334. 0	348.39	358. 3
24		217.27	264.40	307.12	334.39	349. 1	358.20
25		219. 2	266.13	308.24	335.17	349.23	358.36
26		220.36	267.46	309.35	335.55	349.44	358.53
27		222.10	269.18	310.45	336.32	350. 5	359.10
28		223.45	270.50	311.53	337. 8	350.26	359.27
29		225.19	272.22	313. 0	337.43	350.46	359.44
30		226.54	273.53	314. 6	338.17	351. 6	360. 0

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	8. 6	20. 2	43.39	84.26	132.18
1	0.15	8. 25	20.34	44.45	85.59	133.55
2	0.30	8. 44	21. 7	45.52	87.33	135.31
3	0.45	9. 3	21.41	47. 1	89. 7	137. 7
4	1. 0	9. 22	22.16	48.11	90.41	138.43
5	1.16	9. 41	22.53	49.22	92.15	140.19
6	1.31	10. 1	23.30	50.34	93.50	141.55
7	1.46	10.21	24. 8	51.48	95.25	143.31
8	2. 2	10.42	24.46	53. 3	97. 0	145. 7
9	2.17	11. 3	25.25	54.19	98.35	146.43
10	2.33	11.24	26. 5	55.36	100.11	148.1
11	2.48	11.45	26.46	56.54	101.47	149.5
12	3. 4	12. 7	27.28	58.13	103.23	151.29
13	3.19	12.29	28.12	59.33	104.59	153.
14	3.35	12.51	28.57	60.54	106.35	154.40
15	3.51	13.14	29.43	62.17	108.12	156.15
16	4. 7	13.38	30.30	63.41	109.48	157.51
17	4.23	14. 2	31.18	65. 5	111.24	159.26
18	4.39	14.27	32. 7	66.30	113. 1	161. 1
19	4.55	14.52	32.58	67.56	114.37	162.36
20	5.12	15.17	33.50	69.23	116.14	164.11
21	5.29	15.43	34.43	70.51	117.50	165.46
22	5.46	16. 9	35.37	72.19	119.27	167.21
23	6. 3	16.36	36.33	73.48	121. 4	168.56
24	6.20	17. 3	37.30	75.17	122.41	170.31
25	6.37	17.31	38.28	76.47	124.17	172. 6
26	6.54	18. 0	39.28	78.18	125.54	173.41
27	7.12	18.30	40.29	79.49	127.30	175.16
28	7.30	19. 0	41.31	81.21	129. 6	176.51
29	7.48	19.31	42.34	82.53	130.42	178.26
30	8. 6	20. 2	43.39	84.26	132.18	180. 0

		♎	♏	♐	♑	♒	♓
		° ′	° ′	° ′	° ′	° ′	° ′
0		180. 0	227.42	275.34	316.21	339.58	351.54
1		181.34	229.18	277. 7	317.26	340.29	352.12
2		183. 9	230.54	278.39	318.29	341. 0	352.30
3		184.44	232.30	280.11	319.31	341.30	352.48
4		186.19	234. 6	281.42	320.32	342. 0	353. 6
5		187.54	235.43	283.13	321.32	342.29	353.23
6		189.29	237.19	284.43	322.30	342.57	353.40
7		191. 4	238.56	286.12	323.27	343.24	353.57
8		192.39	240.33	287.41	324.23	343.51	354.14
9		194.14	242.10	289. 9	325.17	344.17	354.31
10		195.49	243.46	290.37	326.10	344.43	354.48
11		197.24	245.23	292. 4	327. 2	345. 8	355. 5
12		198.59	246.59	293.30	327.53	345.33	355.21
13		200.34	248.36	294.55	328.42	345.58	355.37
14		202. 9	250.12	296.19	329.30	346.22	355.53
15		203.45	251.48	297.43	330.17	346.46	356. 9
16		205.20	253.25	299. 6	331. 3	347. 9	356.25
17		206.55	255. 1	300.27	331.48	347.31	356.41
18		208.31	256.37	301.47	332.32	347.53	356.56
19		210. 6	258.13	303. 6	333.14	348.15	357.12
20		211.42	259.49	304.24	333.55	348.36	357.27
21		213.17	261.25	305.41	334.35	348.57	357.43
22		214.53	263. 0	306.57	335.14	349.18	357.58
23		216.29	264.35	308.12	335.52	349.39	358.14
24		218. 5	266.10	309.26	336.30	349.59	358.29
25		219.41	267.45	310.38	337. 7	350.19	358.44
26		221.17	269.19	311.49	337.44	350.38	359. 0
27		222.53	270.53	312.59	338.19	350.57	359.15
28		224.29	272.27	314. 8	338.53	351.16	359.30
29		226. 5	274. 1	315.15	339.26	351.35	359.45
30		227.42	275.34	316.21	339.58	351.54	360. 0

Tabula Aſcenſ. obliqvarum Eclipt.

	♈	♉	♊	♋	♌	♍
°	° ′	° ′	° ′	° ′	° ′	° ′
0	0. 0	7.16	18.12	41. 8	82.36	131.28
1	0.13	7.33	18.42	42.14	84.11	133. 6
2	0.27	7.50	19.13	43.22	85.47	134.44
3	0.40	8. 7	19.45	44.31	87.23	136.22
4	0.54	8.24	20.18	45.41	88.59	138. 0
5	1. 8	8.41	20.53	46.53	90.36	139.37
6	1.21	8.59	21.28	48. 6	92.13	141.15
7	1.35	9.17	22. 4	49.20	93.50	142.53
8	1.49	9.36	22.40	50.36	95.27	144.30
9	2. 3	9.55	23.17	51.53	97. 4	146. 8
10	2.17	10.15	23.55	53.11	98.42	147.45
11	2.31	10.35	24.35	54.30	100.20	149.23
12	2.45	10.55	25.16	55.50	101.58	151. 0
13	2.59	11.15	25.58	57.12	103.36	152.37
14	3.13	11.35	26.41	58.35	105.14	154.14
15	3.27	11.55	27.25	59.59	106.53	155.51
16	3.41	12.16	28.10	61.24	108.31	157.28
17	3.55	12.38	28.57	62.50	110. 9	159. 5
18	4.10	13. 1	29.45	64.17	111.47	160.42
19	4.24	13.24	30.34	65.45	113.26	162.19
20	4.39	13.48	31.25	67.13	115. 5	163.55
21	4.54	14.12	32.17	68.42	116.44	165.32
22	5. 9	14.36	33.10	70.12	118.23	167. 9
23	5.24	15. 1	34. 5	71.43	120. 1	168.45
24	5.39	15.26	35. 1	73.15	121.39	170.22
25	5.55	15.52	35.59	74.47	123.17	171.58
26	6.11	16.19	36.58	76.20	124.56	173.35
27	6.27	16.47	37.58	77.53	126.34	175.11
28	6.43	17.15	39. 0	79.27	128.12	176.48
29	6.59	17.43	40. 3	81. 1	129.50	178.24
30	7.16	18.12	41. 8	82.36	131.28	180. 0

		♎	♏	♐	♑	♒	♓
°		° ′	° ′	° ′	° ′	° ′	° ′
0		180. 0	228.32	277.24	318.52	341.48	352.44
1		181.36	230.10	278.59	319.57	342.17	353. 1
2		183.12	231.48	280.33	321. 0	342.45	353.17
3		184.49	233.26	282. 7	322. 2	343.13	353.33
4		186.25	235. 4	283.40	323. 2	343.41	353.49
5		188. 2	236.43	285.13	324. 1	344. 8	354. 5
6		189.38	238.21	286.45	324.59	344.34	354.21
7		191.15	239.59	288.17	325.55	344.59	354.36
8		192.51	241.37	289.48	326.50	345.24	354.51
9		194.28	243.16	291.18	327.43	345.48	355. 6
10		196. 5	244.55	292.47	328.35	346.12	355.21
11		197.41	246.34	294.15	329.26	346.36	355.36
12		199.18	248.13	295.43	330.15	346.59	355.50
13		200.55	249.51	297.10	331. 3	347.22	356. 5
14		202.32	251.29	298.36	331.50	347.44	356.19
15		204. 9	253. 7	300. 1	332.35	348. 5	356.33
16		205.46	254.46	301.25	333.19	348.25	356.47
17		207.23	256.24	302.48	334. 2	348.45	357. 1
18		209. 0	258. 2	304.10	334.44	349. 5	357.15
19		210.37	259.40	305.30	335.25	349.25	357.29
20		212.15	261.18	306.49	336. 5	349.45	357.43
21		213.52	262.56	308. 7	336.43	350. 5	357.57
22		215.30	264.33	309.24	337.20	350.24	358.11
23		217. 7	266.10	310.40	337.56	350.43	358.25
24		218.45	267.47	311.54	338.32	351. 1	358.39
25		220.23	269.24	313. 7	339. 7	351.19	358.52
26		222. 0	271. 1	314.19	339.42	351.36	359. 6
27		223.38	272.37	315.29	340.15	351.53	359.20
28		225.16	274.13	316.38	340.47	352.10	359.33
29		226.54	275.49	317.46	341.18	352.27	359.47
30		228.32	277.24	318.52	341.48	352.44	360. 0

Ad Elev. Poli 47. gr. Tabula angulo-

	o ♈	o ♉	o ♊	o ♋	o ♌	o ♍	
0	19.30	21. 6	26.32	37. 7	51. 4	62.21	30
1	19.30	21.13	26.48	37.33	51.31	62.37	29
2	19.31	21.20	27. 5	37.59	51.58	62.53	28
3	19.31	21.27	27.21	38.26	52.25	63. 8	27
4	19.32	21.34	27.38	38.53	52.52	63.22	26
5	19.33	21.42	27.55	39.20	53.18	63.36	25
6	19.34	21.50	28.13	39.47	53.44	63.50	24
7	19.35	21.58	28.31	40.15	54.10	64. 3	23
8	19.36	22. 7	28.50	40.43	54.36	64.15	22
9	19.38	22.16	29. 9	41.10	55. 1	64.27	21
10	19.40	22.25	29.28	41.38	55.26	64.38	20
11	19.42	22.34	29.48	42. 7	55.50	64.49	19
12	19.45	22.44	30. 8	42.35	56.15	65. 0	18
13	19.47	22.54	30.28	43. 3	56.39	65. 9	17
14	19.50	23. 4	30.49	43.31	57. 2	65.18	16
15	19.53	23.15	31. 9	44. 0	57.25	65.27	15
16	19.56	23.26	31.31	44.29	57.48	65.36	14
17	20. 0	23.37	31.53	44.58	58.10	65.43	13
18	20. 4	23.49	32.15	45.26	58.32	65.49	12
19	20. 8	24. 0	32.37	45.54	58.54	65.56	11
20	20.12	24.12	33. 0	46.23	59.15	66. 2	10
21	20.16	24.25	33.24	46.51	59.36	66. 8	9
22	20.21	24.38	33.47	47.20	59.56	66.13	8
23	20.25	24.51	34.11	47.49	60.16	66.17	7
24	20.30	25. 4	34.35	48.17	60.35	66.20	6
25	20.36	25.18	35. 0	48.45	60.54	66.23	5
26	20.41	25.32	35.25	49.13	61.12	66.25	4
27	20.47	25.47	35.50	49.41	61.30	66.27	3
28	20.53	26. 2	36.15	50. 9	61.48	66.29	2
29	20.59	26.17	36.41	50.37	62. 5	66.30	1
30	21. 6	26.32	37. 7	51. 4	62.21	66.30	0
	♓	♒	♑	♐	♏	♎	

	0 ♈	0 ♉	0 ♊	0 ♋	0 ♌	0 ♍	
0	18.30	20. 3	25.22	35.52	49.54	61.19	30
1	18.30	20.10	25.38	36.18	50.22	61.35	29
2	18.31	20.16	25.54	36.45	50.50	61.51	28
3	18.31	20.23	26.11	37.11	51.17	62. 6	27
4	18.32	20.31	26.27	37.38	51.43	62.20	26
5	18.33	20.38	26.44	38. 6	52.10	62.34	25
6	18.34	20.46	27. 2	38.33	52.37	62.48	24
7	18.35	20.54	27.19	39. 1	53. 3	63. 1	23
8	18.36	21. 2	27.38	39.28	53.28	63.14	22
9	18.38	21.11	27.57	39.56	53.53	63.26	21
10	18.40	21.20	28.16	40.25	54.18	63.37	20
11	18.42	21.30	28.36	40.53	54.43	63.48	19
12	18.45	21.39	28.55	41.21	55. 8	63.59	18
13	18.47	21.49	29.15	41.49	55.32	64. 9	17
14	18.49	21.58	29.36	42.18	55.56	64.18	16
15	18.52	22. 9	29.57	42.47	56.19	64.26	15
16	18.56	22.20	30.18	43.16	56.42	64.35	14
17	18.59	22.30	30.39	43.45	57. 5	64.43	13
18	19. 3	22.42	31. 1	44.13	57.27	64.50	12
19	19. 6	22.53	31.23	45.42	57.49	64.56	11
20	19.10	23. 5	31.56	45.11	58.10	65. 2	10
21	19.14	23.17	32.10	45.39	58.31	65. 8	9
22	19.19	23.30	32.33	46. 8	58.52	65.12	8
23	19.23	23.43	32.57	46.37	59.12	65.16	7
24	19.28	23.56	33.21	47. 6	59.32	65.20	6
25	19.33	24.10	33.46	47.34	59.51	65.23	5
26	19.39	24.23	34.10	48. 3	60. 9	65.26	4
27	19.44	24.38	34.35	48.31	60.27	65.28	3
28	19.51	24.53	35. 1	48.58	60.44	65.29	2
29	19.57	25. 8	35.26	49.26	61. 2	65.30	1
30	20. 3	25.22	35.52	49.54	61.19	65.30	0
	♓	♒	♑	♐	♍	♎	

	° ♈ ′	° ♉ ′	° ♊ ′	° ♋ ′	° ♌ ′	° ♍ ′	
0	17.30	19. 0	24.12	34.37	48.44	60.16	30
1	17.30	19. 7	24.28	35. 3	49.12	60.32	29
2	17.31	19.13	24.44	35.30	49.39	60.48	28
3	17.31	19.20	25. 0	35.56	50. 6	61. 4	27
4	17.32	19.27	25.16	36.23	50.34	61.19	26
5	17.33	19.34	25.33	36.50	51. 1	61.33	25
6	17.34	19.41	25.50	37.18	51.27	61.46	24
7	17.35	19.49	26. 7	37.46	51.54	61.59	23
8	17.36	19.57	26.26	38.14	52.20	62.12	22
9	17.37	20. 6	26.45	38.43	52.46	62.24	21
10	17.39	20.15	27. 4	39.10	53.11	62.35	20
11	17.41	20.24	27.23	39.39	53.36	62.47	19
12	17.44	20.33	27.43	40. 7	54. 1	62.58	18
13	17.46	20.43	28. 2	40.36	54.26	63. 8	17
14	17.49	20.53	28.22	41. 4	54.49	63.17	16
15	17.52	21. 3	28.43	41.33	55.13	63.26	15
16	17.55	21.13	29. 4	42. 2	55.36	63.34	14
17	17.58	21.24	29.26	42.31	55.59	63.42	13
18	18. 2	21.35	29.47	43. 0	56.22	63.49	12
19	18. 5	21.46	30. 9	43.29	56.44	63.55	11
20	18. 9	21.58	30.32	43.58	57. 5	64. 1	10
21	18.13	22.10	30.55	44.27	57.26	64. 7	9
22	18.18	22.22	31.18	44.56	57.47	64.12	8
23	18.22	22.34	31.42	45.25	58. 7	64.16	7
24	18.26	22.47	32. 6	45.54	58.27	64.20	6
25	18.31	23. 1	32.30	46.23	58.46	64.23	5
26	18.37	23.14	32.55	46.52	59. 5	64.25	4
27	18.42	23.28	33.20	47.20	59.23	64.27	3
28	18.48	23.42	33.46	47.48	59.41	64.29	2
29	18.54	23.57	34.11	48.16	59.59	64.30	1
30	19. 0	24.12	34.37	48.44	60.16	64.30	0
	♓	♒	♑	♐	♏	♎	

	° ♈	° ♉	° ♊	° ♋	p ♌	° ♍	
0	16.30	17.57	23. 2	33.21	47.33	59.13	30
1	16.30	18. 3	23.17	33.47	48. 1	59.29	29
2	16.31	18.10	23.32	34.14	48.29	59.45	28
3	16.31	18.16	23.48	34.40	48.57	60. 1	27
4	16.31	18.23	24. 4	35. 7	49.24	60.16	26
5	16.32	18.30	24.21	35.35	49.51	60.30	25
6	16.33	18.37	24.38	36. 2	50.18	60.44	24
7	16.34	18.45	24.55	36.30	50.45	60.58	23
8	16.36	18.53	25.13	36.58	51.11	61.11	22
9	16.37	19. 1	25.31	37.26	51.37	61.23	21
10	16.39	19.10	25.49	37.55	52. 3	61.34	20
11	16.41	19.18	26. 9	38.24	52.28	61.46	19
12	16.43	19.27	26.28	38.52	52.53	61.57	18
13	16.45	19.37	26.48	39.21	53.18	62. 7	17
14	16.48	19.46	27. 8	39.50	53.42	62.16	16
15	16.51	19.56	27.29	40.19	54. 6	62.25	15
16	16.54	20. 6	27.50	40.48	54.30	62.33	14
17	16.57	20.16	28.11	41.17	54.53	62.41	13
18	17. 0	20.27	28.32	41.46	55.15	62.48	12
19	17. 4	20.38	28.54	42.15	55.38	62.55	11
20	17. 8	20.49	29.17	42.44	56. 0	63. 1	10
21	17.12	21. 1	29.40	43.13	56.21	63. 7	9
22	17.16	21.13	30. 3	43.43	56.42	63.12	8
23	17.20	21.25	30.26	44.13	57. 3	63.16	7
24	17.25	21.38	30.50	44.42	57.23	63.19	6
25	17.30	21.51	31.14	45.11	57.42	63.22	5
26	17.34	22. 4	31.39	45.40	58. 1	63.25	4
27	17.39	22.18	32. 4	46. 8	58.20	63.27	3
28	17.45	22.32	32.30	46.36	58.38	63.29	2
29	17.51	22.47	32.55	47. 5	58.56	63.30	1
30	17.57	23. 2	33.21	47.33	59.13	63.30	0
	♓	♒	♑	♐	♏	♎	

	0 ♈ ′	0 ♉ ′	0 ♊ ′	0 ♋ ′	0 ♌ ′	0 ♍ ′	
0	15.30	16.54	21.50	32. 4	46.22	58. 9	30
1	15.30	17. 0	22. 5	32.30	46.51	58.26	29
2	15.31	17. 6	22.20	32.57	47.19	58.43	28
3	15.31	17.12	22.35	33.23	47.4[illegible]	58.59	27
4	15.31	17.19	22.51	33.51	48.14	59.14	26
5	15.32	17.26	23. 8	34.18	48.42	59.28	25
6	15.33	17.33	23.24	34.46	49. 9	59.42	24
7	15.34	17.40	23.41	35.14	49.36	59.56	23
8	15.35	17.48	23.59	35.42	50. 2	60. 9	22
9	15.37	17.56	24.17	36.10	50.29	60.22	21
10	15.39	18. 4	24.35	36.3[illegible]	50.55	60.33	20
11	15.41	18.12	24.54	37. 7	51.20	60.44	19
12	15.43	18.21	25.13	37.36	51.46	60.55	18
13	15.45	18.30	25.32	38. 5	52.11	61. 5	17
14	15.47	18.39	25.52	38.34	52.35	61.15	16
15	15.50	18.49	26.13	39. 3	52.59	61.24	15
16	15.53	18.59	26.34	39.32	53.23	61.33	14
17	15.56	19. 9	26.55	40. 2	53.46	61.41	13
18	15.59	19.20	27.16	40.31	54. 9	61.48	12
19	16. 3	19.30	27.38	41. 0	54.32	61.55	11
20	16. 7	19.41	28. 1	41.31	54.54	62. 1	10
21	16.10	19.52	28.24	42. 0	55.16	62. 7	9
22	16.14	20. 4	28.47	42.30	55.37	62.12	8
23	16.18	20.16	29.10	42.59	55.58	62.16	7
24	16.23	20.29	29.34	43.[illegible]9	56.18	62.19	6
25	16.28	20.41	29.58	43.58	56.38	62.22	5
26	16.32	20.54	30.23	44.27	56.57	62.25	4
27	16.37	21. 8	30.48	44.55	57.16	62.27	3
28	16.42	21.22	31.13	45.24	57.34	62.29	2
29	16.48	21.36	31.38	45.53	57.52	62.30	1
30	16.54	21.50	32. 4	46.22	58. 9	62.30	0
	♓	♒	♑	♐	♏	♎	

	° ♈	° ♉	° ♊	° ♋	° ♌	° ♍	
0	14.38	15.58	20.48	30.56	45.20	57.14	30
1	14.38	16. 4	21. 2	31.22	45.49	57.31	29
2	14.39	16.10	21.17	31.49	46.17	57.48	28
3	14.39	16.16	21.32	32.15	46.45	58. 4	27
4	14.39	16.23	21.48	32.43	47.13	58.19	26
5	14.40	16.30	22. 4	33.10	47.41	58.33	25
6	14.41	16.37	22.20	33.38	48. 8	58.48	24
7	14.42	16.44	22.37	34. 6	48.35	59. 2	23
8	14.43	16.51	22.54	34.34	49. 1	59.15	22
9	14.44	16.59	23.12	35. 2	49.29	59.28	21
10	14.46	17. 7	23.30	35.31	49.56	59.40	20
11	14.48	17.15	23.49	35. 0	50.21	59.51	19
12	14.50	17.24	24. 7	36.29	50.47	60. 2	18
13	14.52	17.33	24.26	36.58	51.12	60.12	17
14	14.54	17.42	24.46	37.27	51.36	60.22	16
15	14.57	17.51	25. 7	37.57	52. 1	60.31	15
16	15. 0	18. 0	25.27	38.26	52.25	60.40	14
17	15. 3	18.10	25.48	38.56	52.49	60.48	13
18	15. 6	18.20	26. 9	39.26	53.12	60.55	12
19	15. 9	18.30	26.37	39.55	53.35	61. 2	11
20	15.13	18.41	26.53	40.26	53.57	61. 8	10
21	15.16	18.52	27.16	40.55	54.19	61.14	9
22	15.20	19. 3	27.39	41.25	54.41	61.19	8
23	15.24	19.15	28. 2	41.54	55. 2	61.23	7
24	15.28	19.28	28.26	42.25	55.23	61.27	6
25	15.33	19.40	28.50	42.54	55.43	61.30	5
26	15.37	19.53	29.15	43.23	56. 2	61.33	4
27	15.42	20. 6	29.40	43.51	56.21	61.35	3
28	15.47	20.20	30. 5	44.21	56.39	61.37	2
29	15.53	20.34	30.30	44.51	56.57	61.38	1
30	15.58	20.48	30.56	45.20	57.14	61.38	0
	♓	♒	♑	♐	♏	♎	

	° ♈	° ♉	° ♊	° ♋	° ♌	° ♍	
0	14.30	15.50	20.38	30.46	45.10	57. 6	30
1	14.30	15.56	20.52	31.12	45.38	57.23	29
2	14.31	16. 2	21. 7	31.38	46. 7	57.40	28
3	14.31	16. 8	21.22	32. 5	46.35	57.56	27
4	14.31	16.15	21.38	32.32	47. 3	58.11	26
5	14.32	16.21	21.54	33. 0	47.31	58.25	25
6	14.33	16.28	22.10	33.28	47.59	58.40	24
7	14.34	16.35	22.27	33.56	48.26	58.54	23
8	14.35	16.42	22.44	34.24	48.53	59. 7	22
9	14.36	16.50	23. 2	34.52	49.19	59.20	21
10	14.38	16.58	23.20	35.21	49.46	59.32	20
11	14.40	17. 6	23.39	35.50	50.12	59.43	19
12	14.42	17.15	23.57	36.19	50.38	59.54	18
13	14.44	17.24	24.16	36.48	51. 3	60. 5	17
14	14.46	17.33	24.36	37.17	51.27	60.14	16
15	14.49	17.42	24.57	37.47	51.52	60.23	15
16	14.52	17.51	25.17	38.16	52.16	60.32	14
17	14.55	18. 1	25.38	38.46	52.40	60.40	13
18	14.58	18.11	25.59	39.16	53. 3	60.47	12
19	15. 1	18.21	26.21	39.46	53.26	60.54	11
20	15. 5	18.32	26.43	40.16	53.48	61. 0	10
21	15. 8	18.43	27. 6	40.45	54.10	61. 6	9
22	15.12	18.54	27.29	41.14	54.32	61.11	8
23	15.16	19. 6	27.52	41.44	54.53	61.15	7
24	15.20	19.19	28.16	42.14	55.14	61.19	6
25	15.25	19.31	28.40	42.44	55.34	61.22	5
26	15.29	19.44	29. 4	43.14	55.53	61.25	4
27	15.34	19.57	29.29	43.43	56.12	61.27	3
28	15.40	20.10	29.54	44.11	56.30	61.29	2
29	15.45	20.24	30.20	44.41	56.48	61.30	1
30	15.50	20.38	30.46	45.10	57. 6	61.30	0
	♓	♒	♑	♐	♏	♎	

rum Orientis ad El. Poli 53. gr.

	♈	♉	♊	♋	♌	♍	
0	13.30	14.47	19.25	29.26	43.57	56. 3	30
1	13.30	14.53	19.39	29.52	44.26	56.20	29
2	13.31	14.58	19.54	30.19	44.55	56.37	28
3	13.31	15. 4	20. 8	30.46	45.23	56.53	27
4	13.31	15.10	20.23	31.13	45.52	57. 9	26
5	13.32	15.17	20.39	31.41	46.20	57.24	25
6	13.33	15.23	20.55	32. 9	46.58	57.38	24
7	13.34	15.30	21.12	32.37	47.16	57.52	23
8	13.35	15.37	21.29	33. 5	47.43	58. 5	22
9	13.36	15.44	21.47	33.34	48.10	58.18	21
10	13.38	15.52	22. 5	34. 3	48.37	58.30	20
11	13.40	16. 0	22.23	34.32	49. 3	58.42	19
12	13.42	16. 8	22.41	35. 1	49.29	58.53	18
13	13.44	16.16	23. 0	35.30	49.54	59. 3	17
14	13.46	16.25	23.19	36. 0	50.19	59.13	16
15	13.48	16.34	23.39	36.29	50.44	59.22	15
16	13.51	16.43	24. 0	36.59	51. 5	59.31	14
17	13.54	16.53	24.20	37.29	51.33	59.39	13
18	13.57	17. 3	24.41	37.59	51.56	59.47	12
19	14. 0	17.13	25. 3	38.29	52.19	59.54	11
20	14. 3	17.23	25.25	38.59	52.42	60. 0	10
21	14. 7	17.34	25.47	39.29	53. 5	60. 6	9
22	14.11	17.45	26.10	39.59	53.27	60.11	8
23	14.14	17.56	26.33	40.29	53.48	60.16	7
24	14.18	18. 8	26.57	40.59	54. 9	60.19	6
25	14.23	18.20	27.21	41.29	54.29	60.22	5
26	14.27	18.32	27.45	41.59	54.48	60.25	4
27	14.32	18.45	28.10	42.29	55. 8	60.27	3
28	14.37	18.58	28.35	42.58	55.27	60.29	2
29	14.42	19.11	29. 0	43.27	55.45	60.30	1
30	14.47	19.25	29.26	43.57	56. 3	60.30	0
	♓	♒	♑	♐	♏	♎	

	○ ♈	○ ♉	○ ♊	○ ♋	○ ♌	○ ♍	
0	12.30	13.43	18.11	28. 6	42.43	54.59	30
1	12.30	13.49	18.25	28.32	43.12	55.16	29
2	12.31	13.54	18.39	28.58	43.42	55.33	28
3	12.31	14. 0	18.54	29.25	44.11	55.50	27
4	12.31	14. 6	19. 8	29.52	44.40	56. 6	26
5	12.32	14.12	19.23	30.20	45. 8	56.21	25
6	12.33	14.18	19.39	30.48	45.36	56.36	24
7	12.34	14.24	19.55	31.16	46. 4	56.50	23
8	12.35	14.31	20.12	31.45	46.32	57. 3	22
9	12.36	14.38	20.30	32.14	46.59	57.16	21
10	12.37	14.46	20.47	32.43	47.26	57.28	20
11	12.39	14.53	21. 5	33.13	47.53	57.40	19
12	12.41	15. 1	21.23	33.42	48.19	57.51	18
13	12.43	15. 9	21.42	34.11	48.45	58. 2	17
14	12.45	15.17	22. 1	34.41	49.11	58.12	16
15	12.48	15.26	22.21	35.11	49.36	58.22	15
16	12.50	15.35	22.41	35.41	50. 1	58.31	14
17	12.52	15.44	23. 1	36.11	50.25	58.39	13
18	12.55	15.53	23.22	36.41	50.49	58.46	12
19	12.58	16. 3	23.43	37.11	51.13	58.53	11
20	13. 2	16.13	24. 5	37.42	51.36	59. 0	10
21	13. 5	16.23	24.27	38.12	51.59	59. 6	9
22	13. 9	16.34	24.49	38.43	52.21	59.11	8
23	13.12	16.45	25.12	39.13	52.42	59.15	7
24	13.16	16.56	25.36	39.43	53. 3	59.19	6
25	13.20	17. 8	26. 0	40.14	53.24	59.22	5
26	13.24	17.20	26.25	40.44	53.44	59.25	4
27	13.28	17.32	26.49	41.14	54. 3	59.27	3
28	13.33	17.45	27.14	41.43	54.22	59.29	2
29	13.38	17.58	27.40	42.13	54.41	59.30	1
30	13.43	18.11	28. 6	42.43	54.59	59.30	0
	♓	♒	♑	♐	♏	♎	

	° ♈	° ♉	° ♊	° ♋	° ♌	° ♍	
0	11.30	12.40	16.57	26.43	41.29	53.55	30
1	11.30	12.45	17.10	27. 9	41.58	54.13	29
2	11.30	12.50	17.24	27.36	42.28	54.30	28
3	11.31	12.55	17.38	28. 3	42.57	54.47	27
4	11.31	13. 1	17.52	28.30	43.27	55. 3	26
5	11.32	13. 6	18. 7	28.58	43.56	55.18	25
6	11.33	13.12	18.22	29.26	44.24	55.33	24
7	11.33	13.18	18.38	29.55	44.53	55.47	23
8	11.34	13.25	18.55	30.23	45.21	56. 1	22
9	11.35	13.32	19.11	30.52	45.49	56.14	21
10	11.37	13.39	19.28	31.21	46.16	56.27	20
11	11.39	13.46	19.46	31.51	46.43	56.39	19
12	11.40	13.54	20. 4	32.21	47.10	56.50	18
13	11.42	14. 1	20.22	32.50	47.36	57. 1	17
14	11.44	14. 9	20.41	33.20	48. 2	57.11	16
15	11.47	14.18	21. 0	33.51	48.28	57.21	15
16	11.49	14.26	21.20	34.21	48.53	57.30	14
17	11.51	14.35	21.40	34.52	49.17	57.38	13
18	11.54	14.44	22. 1	35.22	49.42	57.45	12
19	11.57	14.53	22.22	35.53	50. 6	57.52	11
20	12. 0	15. 2	22.43	36.24	50.29	57.59	10
21	12. 3	15.12	23. 5	36.54	50.52	58. 5	9
22	12. 7	15.23	23.28	37.25	51.15	58.10	8
23	12.10	15.33	23.51	37.56	51.37	58.15	7
24	12.13	15.44	24.14	38.27	51.58	58.19	6
25	12.17	15.56	24.38	38.57	52.18	58.22	5
26	12.21	16. 7	25. 2	39.28	52.39	58.25	4
27	12.25	16.19	25.27	39.58	52.59	58.27	3
28	12.30	16.31	25.52	40.28	53.18	58.29	2
29	12.35	16.44	26.17	40.58	53.37	58.30	1
30	12.40	16.57	26.43	41.29	53.55	58.30	0
	♓	♒	♑	♐	♏	♎	

	° ♈	° ♉	° ♊	° ♋	° ♌	° ♍	
0	10.30	11.35	15.41	25.19	40.13	52.51	30
1	10.30	11.40	15.54	25.45	40.43	53. 9	29
2	10.31	11.45	16. 7	26.11	41.13	53.27	28
3	10.31	11.50	16.21	26.38	41.43	53.44	27
4	10.31	11.55	16.35	27. 6	42.13	54. 0	26
5	10.32	12. 1	16.49	27.34	42.42	54.16	25
6	10.33	12. 6	17. 4	28. 2	43.11	54.31	24
7	10.33	12.12	17.19	28.31	43.40	54.45	23
8	10.34	12.18	17.35	29. 0	44. 9	54.58	22
9	10.35	12.25	17.52	29.29	44.37	55.11	21
10	10.36	12.32	18. 8	29.58	45. 5	55.24	20
11	10.38	12.38	18.25	30.28	45.32	55.37	19
12	10.40	12.45	18.43	30.58	45.59	55.59	18
13	10.41	12.53	19. 1	31.28	46.26	56. 0	17
14	10.43	13. 0	19.20	31.58	46.52	56.10	16
15	10.45	13. 8	19.39	32.29	47.18	56.19	15
16	10.48	13.16	19.58	33. 0	47.44	56.28	14
17	10.50	13.24	20.18	33.31	48. 9	56.37	13
18	10.52	13.33	20.38	34. 1	48.34	56.45	12
19	10.55	13.42	20.59	34.32	48.58	56.52	11
20	10.58	13.51	21.20	35. 4	49.22	56.59	10
21	11. 1	14. 1	21.42	35.35	49.45	57. 5	9
22	11. 4	14.11	22. 4	36. 6	50. 8	57.10	8
23	11. 7	14.21	22.27	36.37	50.30	57.15	7
24	11.11	14.31	23. 0	37. 8	50.52	57.19	6
25	11.14	14.42	23.14	37.39	51.13	57.22	5
26	11.18	14.53	23.38	38.10	51.33	57.25	4
27	11.22	15. 5	24. 2	38.41	51.53	57.27	3
28	11.26	15.17	24.27	39.11	52.13	57.29	2
29	11.31	15.29	24.53	39.42	52.32	57.30	1
30	11.35	15.41	25.19	40.13	52.51	57.30	0
	♓	♒	♑	♐	♏	♎	

	° ♈	° ♉	° ♊	° ♋	° ♌	° ♍	
0	9.30	10.31	14.24	23.52	38.56	51.47	30
1	9.30	10.36	14.37	24.18	39.27	52. 5	29
2	9.31	10.40	14.49	24.45	39.58	52.23	28
3	9.11	10.45	15. 2	25.12	40.28	52.40	27
4	9.31	10.50	15.16	25.39	40.58	52.57	26
5	9.32	10.55	15.30	26. 7	41.28	53.13	25
6	9.33	11. 0	15.44	26.36	41.57	53.28	24
7	9.33	11. 5	15.59	27. 5	42.27	53.43	23
8	9.34	11.11	16.15	27.34	42.56	53.57	22
9	9.35	11.17	16.31	28. 3	43.24	54.10	21
10	9.36	11.24	16.47	28.33	43.52	54.23	20
11	9.38	11.30	17. 4	29. 3	44.20	54.35	19
12	9.40	11.37	17.21	29.33	44.48	54.47	18
13	9.41	11.44	17.38	30. 3	45.15	54.58	17
14	9.42	11.51	17.56	30.34	45.42	55. 8	16
15	9.44	11.59	18.15	31. 5	46. 9	55.18	15
16	9.46	12. 6	18.34	31.37	46.35	55.28	14
17	9.48	12.14	18.53	32. 8	47. 0	55.37	13
18	9.51	12.22	19.13	32.39	47.25	55.44	12
19	9.53	12.30	19.34	33.10	47.50	55.51	11
20	9.56	12.39	19.55	33.42	48.14	55.58	10
21	9.59	12.48	20.16	34.13	48.38	56. 4	9
22	10. 2	12.58	20.38	34.45	49. 1	56.10	8
23	10. 5	13. 7	21. 1	35.17	49.24	56.15	7
24	10. 8	13.17	21.24	35.48	49.46	56.19	6
25	10.12	13.28	21.47	36.20	50. 7	56.22	5
26	10.15	13.38	22.11	36.51	50.28	56.25	4
27	10.19	13.49	22.36	37.22	50.48	56.27	3
28	10.23	14. 0	23. 1	37.53	51. 8	56.29	2
29	10.27	14.12	23.26	38.25	51.28	56.30	1
30	10.31	14.24	23.52	38.56	51.47	56.30	0
	♓	♒	♑	♐	♏	♎	

TABU-
AMPLI-
ORTIVARUM ET
Ad Elevatio-
Decli-

Gr. Decl.	47.	48.	49.	50.	51.	51.52	52.	53.
	Ampl	*Ampl.*	*Ampl.*	*Ampl.*	*Ampl.*	*Ampl*	*Ampl.*	*Ampl.*
	c. /	o. /	o. /	o. /	o. /	o. /	o. /	o. /
1	1.28	1.30	1.31	1.33	1.35	1.37	1.37	1.40
2	2.56	2.59	3. 3	3. 7	3.11	3.14	3.15	3.19
3	4.24	4.29	4.35	4.40	4.46	4.52	4.53	4.59
4	5.52	5.59	6. 6	6.14	6.22	6.29	6.30	6.39
5	7.20	7.29	7.38	7.48	7.58	8. 7	8. 8	8.20
6	8.49	8.59	9.10	9.22	9.34	9.45	9.47	10. 0
7	10.18	10.30	10.42	10.56	11.10	11.23	11.25	11.41
8	11.47	12. 0	12.15	12.30	12.47	13. 1	13. 4	13.22
9	13.16	13.31	13.48	14. 5	14.24	14.40	14.43	15. 4
10	14.45	15. 2	15.21	15.40	16. 1	16.20	16.23	16.46
11	16.15	16.34	16.54	17.16	17.39	18. 0	18. 3	18.29
12	17.45	18. 6	18.28	18.52	19.18	19.41	19.44	20.13
13	19.16	19.39	20. 3	20.29	20.57	21.22	21.26	21.57
14	20.47	21.12	21.38	22. 7	22.37	23. 4	23. 8	23.42
15	22.18	22.45	23.14	23.45	24.17	24.47	24.52	25.28
16	23.50	24.20	24.51	25.24	25.58	26.31	26.36	27.16
17	25.23	25.55	26.28	27. 3	27.41	28.16	28.21	29 4
18	26.57	27.30	28. 6	28.44	29.25	30. 2	30. 8	30.54
19	28.31	29. 7	29.45	30.26	31. 9	31.49	31.56	32.45
20	30. 6	30.45	31.25	32. 9	32.55	33.38	33.45	34.38
21	31.42	32.23	33. 7	33.53	34.43	35.29	35.36	36.33
22	33.19	34. 3	34.49	35.39	36.32	37.21	37.29	38.30

LA
TUDINUM
OCCIDUARUM
nem poli in fatie
nationem in margine.

Gr. Decl.	47.	48.	49.	50.	51.	51.52	52.	53.
	ampl.	*ampl.*	*ampl.*	*ampl.*	*ampl.*	*ampl*	*ampl*	*ampl.*
	o. ′	o. ′	o. ′	o. ′	o. ′	o. ′	o. ′	o. ′
22	33.19	34. 3	34.49	35.39	36.32	37.21	37.29	38.30
23	34.57	35.44	36.33	37.26	38.23	39.15	39.24	40.29
24	36.37	37.26	38.19	39.15	40.16	41.12	41.21	42.31
25	38.18	39.10	40. 6	41. 6	42.11	43.11	43.21	44.36
26	40. 0	40.56	41.56	43. 0	44. 9	45.14	45.24	46.45
27	41.44	42.44	43.48	44.56	46.10	47.20	47.31	48.58
28	43.30	44.34	45.42	46.55	48.15	49.29	49.41	51.16
29	45.18	46.26	47.39	48.57	50.23	51.44	51.57	53.40
30	47. 9	48.21	49.39	51. 4	52.37	54. 4	54.18	56.11
31	49. 2	50.20	51.44	53.15	54.56	56.31	56.47	58.51
32	50.59	52.22	53.53	55.32	57.21	59. 7	59.24	61.42
33	53. 0	54.29	56. 7	57.55	59.56	61.53	62.12	64.49
34	55. 5	56.41	58.28	60.27	62.42	64.54	65.17	68.18
35	57.15	59. 0	60.58	63.10	65.42	68.16	68.42	72.23
36	59.32	61.27	63.38	66. 8	69. 4	72. 9	72.42	77.36
37	61.56	64. 5	66.32	69.26	73. 0	77. 4	77.50	90. 6
38	64.31	66.56	69.47	73.18	78. 2	35.35	90. 0	
39	67.20	70. 8	73.35	78.15	90. 0	90. 0		
40	70.29	73.52	78.27	90. 0				
41	74. 9	78.39	90. 0					
42	78.51	90. 0						
43	90. 0							

Lat. / *Loci*	11. 3 (°. ′)	12. 2 (°. ′)	*Lat.* / *Loci*	11. 3 (°. ′)	12. 2 (°. ′)	*Lat.* / *Loci*	11. 3 (°. ′)	12. 2 (°. ′)
1	0.30	0.52	31	16.43	27.30	61	42. 3	57.23
2	1. 0	1.44	32	17.21	28.26	62	43.14	58.27
3	1.30	2.36	33	17.59	29.22	63	44.28	59.32
4	2. 0	3.28	34	18.38	30.18	64	45.43	60.37
5	2.30	4.20	35	19.18	31.14	65	47. 0	61.42
6	3. 0	5.12	36	19.58	32.11	66	48.19	62.48
7	3.31	6. 4	37	20.39	33. 8	67	49.40	63.53
8	4. 1	6.56	38	21.20	34. 5	68	51. 4	64.59
9	4.32	7.49	39	22. 3	35. 3	69	52.29	66. 6
10	5. 2	8.41	40	22.46	36. 0	70	53.57	67.12
11	5.33	9.33	41	23.30	36.58	71	55.27	68.19
12	6. 4	10.26	42	24.14	37.56	72	56.59	69.26
13	6.35	11.18	43	25. 0	38.55	73	58.33	70.33
14	7. 6	12.11	44	25.46	39.54	74	60.10	71.41
15	7.38	13. 4	45	26.34	40.53	75	61.49	72.48
16	8.10	13.57	46	27.22	41.52	76	63.30	73.56
17	8.41	14.50	47	28.12	42.52	77	65.13	75. 4
18	9.14	15.43	48	29. 3	43.53	78	66.58	76.13
19	9.46	16.36	49	29.54	44.53	79	68.45	77.21
20	10.19	17.30	50	30.47	45.54	80	70.34	78.30
21	10.52	18.23	51	31.42	46.55	81	72.25	79.38
22	11.25	19.17	52	32.37	47.57	82	74.18	80.47
23	11.59	20.11	53	33.34	48.58	83	76.12	81.56
24	12.33	21. 5	54	34.32	50. 0	84	78. 8	83. 5
25	13. 7	22. 0	55	35.32	51. 3	85	80. 4	84.14
26	13.42	22.54	56	36.33	52. 5	86	82. 2	85.23
27	14.18	23.49	57	37.36	53. 8	87	84. 1	86.32
28	14.53	24.44	58	38.40	54.11	88	86. 0	87.41
29	15.29	25.39	59	39.46	55.15	89	88. 0	88.51
30	16. 6	26.34	60	40.54	56.19	90	90. 0	90. 0
	9.5	8.6		9.5	8.6		9.5	8.6

T. Qvant. Dier. ad El. 51. 52. VV.					T. par. Æq. & temp.		T. tēporis & part. Æqvatoris.			
Si	0. 6	1. 7	28.	gna	Gr.	H.	H.	1æ. 0		
G.	h. ;	h.	h.	G	|	|. | |	|.	o	|	o.
1	6. 2	7. 2	7.53	29	1	0. 4	1	0.15	31	7.45
2	6. 4	7. 4	7.55	28	2	0. 8	2	0.30	32	8. 0
3	6. 6	7. 6	7.56	27	3	0.12	3	0.45	33	8.15
4	6. 8	7. 8	7.57	26	4	0.16	4	1. 0	34	8.30
5	6.10	7.10	7.58	25	5	0.20	5	1.15	35	8.45
6	6.12	7.12	8. 0	24	6	0.24	6	1.30	36	9. 0
7	6.14	7.13	8. 1	23	7	0.28	7	1.45	37	9.15
8	6.16	7.15	8. 2	22	8	0.32	8	2. 0	38	9.30
9	6.18	7.17	8. 3	21	9	0.36	9	2.15	39	9.45
10	6.20	7.19	8. 4	20	10	0.40	10	2.30	40	10. 0
11	6.22	7.21	8. 5	19	20	1.20	11	2.45	41	10.15
12	6.24	7.23	8. 6	18	30	2. 0	12	3. 0	42	10.30
13	6.26	7.24	8. 7	17	40	2.40	13	3.15	43	10.45
14	6.28	7.26	8. 8	16	50	3.20	14	3.30	44	11. 0
15	6.30	7.28	8. 9	15	60	4. 0	15	3.45	45	11.15
16	6.32	7.30	8. 9	14	70	4.40	16	4. 0	46	11.30
17	6.34	7.32	8.10	13	80	5.20	17	4.15	47	11.45
18	6.36	7.33	8.11	12	90	6. 0	18	4.30	48	12. 0
19	6.38	7.35	8.11	11	100	6.40	19	4.45	49	12.15
20	6.40	7.37	8.12	10	200	13.20	20	5. 0	50	12.30
21	6.42	7.38	8.13	9	300	20. 0	21	5.15	51	12.45
22	6.44	7.40	8.13	8	||	||.|||	22	5.30	52	13. 0
23	6.46	7.41	8.13	7			23	5.45	53	13.15
24	6.48	7.43	8.14	6			24	6. 0	54	13.30
25	6.50	7.45	8.14	5			25	6.15	55	13.45
26	6.52	7.46	8.14	4			26	6.30	56	14. 0
27	6.54	7.48	8.14	3			27	6.45	57	14.15
28	6.56	7.49	8.15	2			28	7. 0	58	14.30
29	6.58	7.51	8.15	1			29	7.15	59	14.45
30	7. 0	7.52	8.15	0			30	7.30	60	15. 0
Si	11.5	10.4	9.3	gna			|||.	|. |||	|.	|||

S	♎		♏		♐		S.
0	♈ '	"	♉ '	"	♊ '	"	0
1	0.	20	8.	36	8.	37	29
2	0.	40	8.	45	8.	26	28
3	0.	59	8.	55	8.	15	27
4	1.	19	9.	4	8.	3	26
5	1.	39	9.	12	7.	50	25
6	1.	59	9.	19	7.	36	24
7	2.	18	9.	26	7.	22	23
8	2.	38	9.	32	7.	7	22
9	2.	57	9.	37	6.	52	21
10	3.	16	9.	42	6.	36	20
11	3.	35	9.	46	6.	20	19
12	3.	53	9.	50	6.	3	18
13	4.	12	9.	52	5.	46	17
14	4.	30	9.	54	5.	28	16
15	4.	47	9.	56	5.	10	15
16	5.	5	9.	56	4.	51	14
17	5.	22	9.	56	4.	32	13
18	5.	38	9.	55	4.	12	12
19	5.	55	9.	53	3.	53	11
20	6.	11	9.	51	3.	33	10
21	6.	26	9.	48	3.	12	9
22	6.	41	9.	44	2.	51	8
23	6.	56	9.	40	2.	31	7
24	7.	10	9.	34	2.	9	6
25	7.	24	9.	28	1.	48	5
26	7.	37	9.	21	1.	27	4
27	7.	50	9.	14	1.	5	3
28	8.	2	9.	6	0.	43	2
29	8.	14	8.	57	0.	22	1
30	8.	29	8.	47	0.	0	0
A	♍	♓	♌	♒	♋	♑	A

Seqvuntur

TABULÆ

THEORICÆ.

Locorum numerus, Nomen & ordo Alphabeticus		Dif. M H. ′. ″	Long. °. ′	Lat. °. ′
1. *Alba Regalis Hung.*	*A*	0.27.40	43.35	47.18
2. *Aldenburgum Miſnia*	*A*	0. 0.40	36.50	51. 0
3. *Alexandria Ægypti*	*A*	1.35.20	60.30	30.58
4. *Amberga Bohemia*	M	0. 1.40	36.15	49.28
5. *Amſterodamum Holl.*	M	0.34.40	28. 0	52.20
6. *Annaberga Miſnia*	*A*	0. 3. 0	37.25	50.43
7. *Antverpia Brabantia*	M	0.36.20	27.35	51.12
8. *Argentina Imperialis*	M	0.20.40	31.30	48.30
9. *Auguſta Vindel. Imper.*	M	0. 6. 0	35.10	48.22
10. *Babylonia Chaldaeor.*	*A*	2.25.20	73. 0	35. 0
11. *Badena Helv. Therm.*	M	0.19.20	31.50	48.42
12. *Berenburgum Aſcan.*	M	0.16. 0	32.40	51.40
13. *Bamberga Franconia*	M	0. 6.40	35. 0	49.58
14. *Barbye Comitatus*	M	0. 1.20	36.20	52. 2
15. *Baſilea Rauracorum*	M	0.21.40	31.15	47.38
16. *Berna Helvetia*	M	0.22.40	31. 0	46.50
17. *Berolinum Marchia*	*A*	0. 6. 0	38.10	52.29
18. *Bononia Italia*	M	0. 0.40	36.30	43.57
19. *Brandenburg. March.*	*A*	0. 2.40	37.20	52.23
20. *Bremis Saxonia*	M	0.17.40	32.15	53.12
21. *Briſacum Briſgoia*	M	0.21.40	31.15	48. 4
22. *Brunſvicum Saxonia*	M	0. 3.40	35.45	52.29
23. *Budiſſina Luſatia*	*A*	0. 8.40	38.50	51. 9
24. *Buſcum Ducis Brab.*	M	0.32.40	28.30	51.31
25. *Caſſilia Haſſia*	M	0.13. 0	33.25	51.18
26. *Ceitza Miſnia*	M	0. 1.20	36.20	51. 0
27. *Coburgum Francon.*	M	0. 6. 0	35.10	50.20
28. *Colberga Pomerania*	*A*	0.16. 0	40.40	53.45
29. *Colmaria Alſatia*	M	0.22.20	31. 5	48. 5
30. *Colonia Agrippina*	M	0.24.40	30.30	50.55

Locorum numerus, Nomen & ordo Alphabeticus.		*Dif. M.*	*Long.*	*Lat.*
		H. ' ''	° '	° '
31. *Compoſtella Hiſpaniæ*	M.	1.39.40	11.45	43. 0
32. *Conſtantia Helvetiæ*	M	0.14.20	33. 5	47.32
33. *Cremona Italiæ*	M.	0. 8. 0	34.40	44.15
34. *Dantiſcum Boruſſiæ*	A	0.30.40	44.20	54. 0
35. *Deſſavia Aſcaniæ*	●	0. 0. 0	36.40	51.53
36. *Dreſda Miſniæ*	A.	0. 5.40	38. 5	51. 6
37. *Embda Friſiæ*	M.	0.25.40	30.15	53.19
38. *Erfordia Thuringiæ*	M.	0. 5.20	35.20	51. 7
39. *Ferraria Italiæ*	M	0. 1.20	36.20	44.18
40. *Flensburgum Holſatiæ*	A.	0. 3. 0	37.25	55. 8
41. *Florentia Italiæ*	●	0. 0. 0	36.40	43.27
42. *Francofordia ad Mœn.*	M.	0.17.40	32.15	50. 2
43. *Francofordia ad Oder*	A.	0.12. 0	39.40	52.51
44. *Friberga Miſniæ*	A	0. 4.40	37.50	50.52
45. *Gandavum Flandriæ*	M	0.39.40	26.45	51. 4
46. *Geneva Sabaudiæ*	M.	0.30.20	29. 5	45.25
47. *Genua Italiæ*	M	0.12. 0	33.40	43.12
48. *Gorlitium Luſatiæ*	A.	0.11.40	39.35	51. 9
49. *Gotha Thuringiæ*	M.	0. 7.40	34.45	51. 0
50. *Gretzia Styriæ*	A.	0.16.40	40.50	47.22
51. *Groninga Friſiæ*	M.	0.28. 0	29.40	53. 9
52. *Grunberga Sileſiæ*	A.	0.13.20	40. 0	51.50
53. *Gryphiswaldum Pomer.*	A.	0. 5.20	38. 0	53.54
54. *Hafnia Daniæ*	●	0. 0. 0	36.40	55.43
55. *Halberſtadium Saxoniæ*	M.	0. 5.20	35.20	52. 0
56. *Hallis vel Hala Saxon.*	M.	0. 1. 0	36.25	51.43
57. *Hamburgum Saxoniæ*	M	0.12.20	33.35	53.42
58. *Heidelberga Palatinatus*	M.	0.17.40	32.15	49.20
59. *Helmſtadium Saxoniæ*	M.	0. 5. 0	35.25	52.23
60. *Jena Thuringiæ*	M.	0. 3. 0	35.55	51. 2

Locorum numerus, Nomen & ordo Alphabeticus		*Dif M.*	*Long.*	*Lat.*
		H. ′. ″	o. ′	o. ′
61. *Ingolſtadium Bavaria*	*M.*	0. 4. 0	35.40	48.46
62. *Kitzingum Franconia*	*M*	0. 9.40	34.15	49.43
63. *Lipſia Miſnia*	*A.*	0. 0.20	36.45	51.22
64. *Liſibona Portugallia*	*M.*	1.39. 0	11.55	38.50
65. *Londinum Anglia*	*M.*	0.49.20	24.20	51.32
66. *Longomontium Dania*	*M.*	0.15.20	32.50	56.40
67. *Lubeça Saxonia*	*M.*	0. 7.20	34.50	53.57
68. *Lucerna Helvetia*	*M.*	0.19. 0	31.55	46.53
69. *Lugdunum Gallia*	*M.*	0.36.40	27.30	52. 7
70. *Lundu Scania*	*A.*	0. 4.40	37.50	55.45
71. *Luneburgum Saxonia*	*M.*	0. 9.20	34.20	53.19
72. *Magdeburgum Saxonia*	*M.*	0. 2. 0	36.10	52.10
73. *Mansfeldium Comit.*	*M*	0. 3.20	35.50	51.40
74. *Mantua Italia*	*M.*	0. 5.40	35.15	44.33
75. *Mariaburgum Boruſſia*	*A.*	0.33.20	45. 0	53.43
76. *Marpurgum Haſſia*	*M.*	0.16.20	32.35	50.43
77. *Martisburgum Miſnia*	*M.*	0. 1. 0	36.25	51.23
78. *Moguntia Imperialis*	*M.*	0.19.40	31.45	50. 0
79. *Monachum Bavaria*	*M.*	0. 2.40	36. 0	48. 6
80. *Monaſterium Weſtph.*	*M.*	0. 22.0	31.10	51.54
81. *Mons Peſſulanus Gallia*	*M.*	0.42.20	26. 5	43. 0
82. *Mons Regius Boruſſia*	*A*	0.40.20	46.45	54.21
83. *Miſena Miſnia*	*A.*	0. 4.20	37.45	51. 9
84 *Narbona Gallia*	*M.*	0.46.20	25. 5	41.59
85. *Neapolis Italia*	*A.*	0.17. 0	40.55	41.37
86. *Nidroſia Norvegia*	*M.*	0.10.40	34. 0	63.27
87. *Noriberga Imperialis*	*M.*	0. 5.40	35.15	49.27
88. *Oenipontus Tirolis*	*M.*	0. 2.40	36. 0	47.13
89. *Padua Italia*	*M.*	0. 1. 0	36.25	45. 6
90. *Pariſii Gallia*	*M.*	0.49. 0	24.25	48.10

Locorum numerus, Nomen & ordo Alphabeticus,	*Dif. M.*	*Long.*	*Lat.*
	H. I. II	*o.*	*o. I*
91. *Piſa Italiæ M.*	0. 3.40	35.45	43. 6
92. *Praga Bohemiæ A.*	0. 7.20	38.30	50. 6
93. *Ratisbona Imperialis M.*	0. 1. 0	36.25	49. 0
94. *Ripæ Daniæ M.*	0.16.20	32.35	55.19
95. *Roma Italiæ A.*	0. 9.20	39. 0	42. 8
96. *Roſtochium Mechelb. M.*	0. 0.40	36.30	54. 5
97. *Salisburgum Epiſcop. A.*	0. 4.40	37.50	47.47
98. *Serveſta Aſcaniæ M.*	0. 0.20	36.35	52. 0
99. *Spandovia Marchiæ A.*	0. 4.40	37.50	52.30
100. *Spira Imperialis M*	0.17.40	32.15	49.10
101. *Stutgardia Wirtenb. M.*	0.14.20	33. 5	48.39
102. *Swinfordia Franconiæ M*	0. 9.20	34.20	50. 3
103. *Thorunum Boruſſiæ A.*	0.31. 0	44.25	52.34
104. *Tigurum Helvetiæ M.*	0.17.20	32.20	47. 9
105. *Torga Misniæ A.*	0. 3.20	37.30	51.33
106. *Treviria Imperialis M.*	0.26.40	39. 0	49.50
107. *Tubinga Wirtenbergi M.*	0.15. 0	32.55	48.24
108. *Venetiæ Italiæ A.*	0. 2.20	37.15	45.18
109. *Verona Italiæ M.*	0. 5.20	35.20	44.51
110. *Veſalia Infer. Germ. M.*	0.27.20	29.50	51.34
111. *Vienna Auſtriæ A*	0.19.20	41.30	48.28
112. *Vinaria Thuringiæ M.*	0. 4. 0	35.40	51. 8
113. *Ulma Svevia, Imper. M.*	0.10.20	34. 5	48.23
114. *Uraniburgum Huenna A.*	0. 0.20	36.45	55.54
115. *Vratiſlaviæ Sileſiæ A.*	0.20. 0	41.40	51. 7
116. *Wittenberga Saxoniæ A.*	0. 2.20	37.15	51.52
117. *Wolfenbitelium Sax. M*	0. 7. 0	34.55	52.23
118. *Wolmerſtadium Sax. M.*	0. 2.40	36. 0	52.19
119. *Wormatia Imperial. M*	0.18.20	32. 5	49.33
120. *Würtzburgum Franc. M*	0.11. 0	33.55	49.44

'n. po.	Longitud.	Anomal.	Longitud.	Anomal.
	S.°.'.''	S. °.'.''	S. °.'.''	S. °.'.''
e I.	8.2.8. 39	8. 14.54.34		
:undi			8. 23.54	8. 8.28.29
br.			9. 8.38.10	7. 0.30.40
1	0. 0.44.49	0. 0.43.47	11.29.45.40	11.29.44.38
2	30.29	28.25	11.29.31.20	11.29.29.17
3	16. 9	13. 3	11.29.17. 1	11.29.13.55
4	1.49	11.29.57.42	0. 0. 1.49	11.29.57.42
5	46.38	0. 0.41.29	11.29.47.29	11.29.42.20
6	32.18	26. 7	11.29.33.10	11.29.26.59
7	17.58	10.45	11.29.18.50	11.29.11.37
8	3.38	11.29.55.24	0. 0. 3.38	11.29.55.24
9	48.27	0. 0.39.11	11.29.49.19	11.29.40. 2
0	34. 7	23.49	11.29.34.59	11.29.24.41
1	19.47	8.27	11.29.20.39	11.29. 9.20
2	5.27	11.29.53. 7	0. 0. 5.28	11.29.53. 7
3	50.16	0. 0.36.52	11.29.51. 8	11.29.37.45
14	35.55	21.31	11.29.36.48	11.29.22.23
15	21.35	6. 9	11.29.22.28	11.29. 7. 2
16	7.16	11.29.50.49	0. 0. 7.17	11.29.50.49
17	52. 5	0. 0.34.34	11.29.52.57	11.29.35.27
18	37.45	19.13	11.29.38.37	11.29.20. 5
19	23.25	3.51	11.29.24.18	11.29. 4.44
20	9. 6	11.29.48.30	0. 0. 9. 6	11.29.48.30

Tab. Med. Motuum ☉ in Annis collectis.

Anni	Lō. ☉ a. l. ll	Anom. ☉ S. o. l. ll	Anni	Long. ☉ S. o. l. ll	Anom. ☉ S. o. l. ll
40	0.18.12	11.29.37. 1	800	0. 6. 4. 8	11.22.20.18
60	0.27.19	11.29.25.31	900	0. 6.49.39	11.21.22.50
80	0.36.25	11.29.14. 2	M.	0. 7.35.10	11.20.25.22
100	0.45.31	11.29. 2.32	2M.	0.15.10.19	11.10.50.44
200	1.31. 2	11.28. 5. 4	3M.	0.22.45.29	11. 1.16. 7
300	2.16.33	11.27. 7.37	4M.	1. 0.20.38	10.21.41.29
400	3. 2. 4	11.26.10. 9	5M.	1. 7.55.48	10.12. 6.51
500	3.47.35	11.25.12.41	6M.	1.15.30.57	10. 2.32.13
600	4.33. 6	11.24.15.13	7M.	1.23. 6. 7	9.22.57.35
700	5.18.37	11.23.17.46	8M.	2. 0.41.17	9.13.22.57

Tab. Med. Mot. ☉ in Menſibus Anni.

	COMMUNIS		*BISSEXTILIS*	
	Longit.	*Anomal.*	*Longit.*	*Anomal.*
	S. o. l. ll	S. o. l. ll	S. o. l. ll	S. o. l. ll
Jan.	1. 0.33.18	1. 0.33.13	1. 0.33.18	1. 0.33.13
Feb	1.28. 9.11	1.28. 9. 2	1.29. 8.20	1.29. 8.10
Mar	2.28.43.29	2.28.42.15	2.29.41.38	2.29.41.23
Apr.	3.28.16.39	3.28.16.19	3.29.15.48	3.29.15.27
Mai.	4.28.49.58	4.28.49.32	4.29.49. 6	4.29.48.40
Jun.	5.28.24. 8	5.28.23.37	5.29.23.16	5.29.22.45
Jul.	6.28.57.26	6.28.56.50	6.29.56.34	6.29.55.58
Aug.	7.29.30.44	7.29.30. 3	8. 0.29.53	8. 0.29.11
Sep.	8.29. 4.54	8.29. 4. 8	9. 0. 4. 3	9. 0. 3.16
Oct.	9.29.38.12	9.29.37.21	10. 0.37.21	10.0.36.29
Nov.	10.29.12.22	10.29.10.26	11. 0.11.31	11.0.10.34
Dec.	11.29.45.40	11.29.44.38	0. 0.44.49	0.0.43.47

	Lōg. ☉	An. ☉		Long. Anō.		Lōg an.
D	°. '. "	°. '. "	H.	°. '. "	Min	'. ". '''
1	0.59. 8	0.59. 8	1	0. 2. 28	31	1. 16
2	1.58.17	1.58.17	2	0. 4. 56	32	1. 19
3	2.57.25	2.57.25	3	0. 7. 24	33	1. 21
4	3.56.33	3.56.33	4	0. 9. 51	34	1. 24
5	4.55.42	4.55.42	5	0. 12. 19	35	1. 26
6	5.54.50	5.54.49	6	0. 14. 47	36	1. 29
7	6.53.58	6.53.57	7	0. 17. 15	37	1. 31
8	7.53. 7	7.53. 6	8	0. 19. 43	38	1. 34
9	8.52.15	8.52.14	9	0. 22. 11	39	1. 36
10	9.51.23	9.51.22	10	0. 24. 38	40	1. 39
11	10.50.32	10.50.31	11	0. 27. 6	41	1. 41
12	11.49.40	11.49.38	12	0. 29. 34	42	1. 43
13	12.48.48	12.48.46	13	0. 32. 2	43	1. 46
14	13.47.57	13.47.55	14	0. 34. 30	44	1. 48
15	14.47. 5	14.47. 3	15	0. 36. 58	45	1. 51
16	15.46.13	15.46.11	16	0. 39. 26	46	1. 53
17	16.45.21	16.45.19	17	0. 41. 53	47	1. 56
18	17.44.30	17.44.27	18	0. 44. 21	48	1. 58
19	18.43.38	18.43.35	19	0. 46. 49	49	2. 1
20	19.42.47	19.42.44	20	0. 49. 17	50	2. 3
21	20.41.55	20.41.52	21	0. 51. 45	51	2. 6
22	21.41. 3	21.41. 0	22	0. 54. 13	52	2. 8
23	22.40.12	22.40. 9	23	0. 56. 40	53	2. 11
24	23.39.20	23.39.16	24	0. 59. 8	54	2. 13
25	24.38.28	24.38.24	25	1. 1. 36	55	2. 16
26	25.37.37	25.37.33	26	1. 4. 4	56	2. 18
27	26.36.45	26.36.41	27	1. 6. 32	57	2. 20
28	27.35.53	27.35.49	28	1. 8. 59	58	2. 23
29	28.35. 1	28.34.57	29	1. 11. 27	59	2. 25
30	29.34.10	29.34. 5	30	1. 13. 55	60	2. 28
31	30.33.18	30.33.13	'	'. ". '''	"	". '''
			"	". '''. ''''	'''.	'''. ''''

Si.	0	1	2	3	4	5	
o	°. ′. ″	o. ′. ″	o. ′. ″	o. ′. ″	o. ′. ″	′. ″	o.
1	2. 5	1. 1.20	1.45.29	2. 2.46	1.47. 9	61.26	29
2	4. 9	1. 3. 8	1.46.33	2. 2.48	1.46. 5	59.31	28
3	6.13	1. 4.54	1.47.35	2. 2.48	1.44.58	57.35	27
4	8.17	1. 6.40	1.48.35	2. 2.47	1.43.49	55.37	26
5	10.20	1. 8.24	1.49.34	2. 2.43	1.42.38	53.37	25
6	12.23	1.10. 7	1.50.31	2. 2.35	1.41.25	51.36	24
7	14.26	1.11.48	1.51.26	2. 2.23	1.40. 9	49.34	23
8	16.29	1.13.28	1.52.17	2. 2. 9	1.38.57	47.31	22
9	18.32	1.15. 7	1.53. 6	2. 1.53	1.37.34	45.28	21
10	20.35	1.16.45	1.53.54	2. 1.36	1.36.14	43.25	20
11	22.37	1.18.22	1.54.41	2. 1.17	1.34.52	41.21	19
12	24.38	1.19.58	1.55.27	2. 0.56	1.33.28	39.16	18
13	26.39	1.21.32	1.56.10	2. 0.32	1.32. 2	37.10	17
14	28.40	1.23. 5	1.56.49	2. 0. 6	1.30.34	35. 3	16
15	30.41	1.24.37	1.57.27	1.59.38	1.29. 3	32.55	15
16	32.41	1.26. 8	1.58. 3	1.59. 8	1.27.31	30.46	14
17	34.41	1.27.37	1.58.36	1.58.36	1.25.57	28.36	13
18	36.40	1.29. 4	1.59. 8	1.58. 1	1.24.21	26.26	12
19	38.39	1.30.29	1.59.38	1.57.24	1.22.44	24.16	11
20	40.37	1.31.53	2. 0. 6	1.56.45	1.21. 6	22. 5	10
21	42.34	1.33.16	2. 0.32	1.56. 3	1.19.27	19.54	9
22	44.30	1.34.37	2. 0.56	1.55.20	1.17.47	17.43	8
23	46.26	1.35.57	2. 1.17	1.54.35	1.16. 5	15.31	7
24	48.21	1.37.15	2. 1.36	1.53.48	1.14.21	13.19	6
25	50.15	1.38.30	2. 1.52	1.52.58	1.12.34	11. 6	5
26	52. 8	1.39.44	2. 2. 6	1.52. 5	1.10.45	8.53	4
27	54. 0	1.40.56	2. 2.18	1.51. 9	1. 8.55	6.40	3
28	55.52	1.42. 6	2. 2.28	1.50.12	1. 7. 4	4.27	2
29	57.43	1.43.15	2. 2.36	1.49.13	1. 5.12	2.13	1
30	59.32	1.44.23	2. 2.42	1.48.12	1. 3.19	0. 0	0
	11	10	9	8	7	6	Si.

Tab. Fixarum Tychonica

Numerus & nom. Fixarum	*Longitud.* S o. |	*Lat.* o. |	*Declin.*	*Magn.*
I. ASTER. ZODIACI				
ARIES.				
1. *Auſtr. in pr. cornu* ♈	♈.27.36	7. 8	B	4
2. *Boreal. ac ſeq. in eod. cornu*	♈.28.22	8.29	B	4
3. *Lucida in vertice C. Princ.*	♉. 2. 5	9.57	B	3
4. *Præcedens trium in cauda*	♉.15.14	1.46	B	4
5. *Infor. ſup. dorſ. 4or in* △	♉.12.39	10.24	B	3
TAURUS.				
6. *In facie Suc. prima in nar.*	♊. 0.11	5.47	A	3
7. *Inter hanc & oculum bor.*	♊. 1.15	4. 2	A	3
8. *Aldebaran ſ. Palilicium*	♊. 4.11	5.31	A	1
9. *In boreo oculo*	♊. 2.52	2.37	A	3
10. *In extremit. cornu bor.*	♊.16.58	5.20	B	2
11. *Media & lucida Pleiadu*	♉.24 23	4. 0	B	3
GEMINI				
12. *Caſtor, Apollo.*	♋.14.40	10. 2	B	2
13. *Pollux, Hercules*	♋.17.42	6.38	B	2
14. *In bor. & ſupr. genu Sup.*	♋. 4.21	2.11	B	3
15. *In Siniſtro genu ſeqvent.*	♋. 9.25	2. 7	A	3
16. *In ventre merid. gemini.*	♋.12.55	6.14	A	3
17. *Seqv. in pede præc. Calx*	♊.29.43	0.53	A	3
18. *Lucida pedis*	♋. 3.30	6.49	A	2
19. *Præcedens ad ſumm. ped.*	♊.25.21	0.13	A	4
CANCER.				
20 *Nebuloſa in pect. Præſep.*	♌. 1.45	1.14	B	N.
21. *Aſellus borens*	♌. 1.56	3. 8	B	4
22. *Aſellus auſtrinus*	♌. 3. 7	0. 4	A	4
23. *In brachio Auſtrino.*	♌. 8. 2	5. 8	A	3
LEO.				
24. *In capit. duar. auſtralior.*	♌.15. 4	9.40	B	3
25. *In collo trium borea.*	♌.21.56	11.50	B	3

Numerus & nom. Fixarum	Longitud. S. o. '	Lat. o. '	Decl.	Magn.
26. *Media & lucida colli*	♌.23.58	8.47	B	2
27. *Auſtralis*	♌.23.19	4.52	B	3
28. *Cor, Regulus, Baſiliſcus*	♌.24.16	0.26	B	1
29. *Sequens 2. in lumbis, Luc.*	♍. 5.40	14.20	B	2
30. *In clune 2. Præced. & Bor.*	♍. 7.49	9.41	B	3
31. *In femore*	♍.11.57	6. 7	B	3
32. *Cauda*	♍.16. 2	12.18	B	1
VIRGO.				
33. *In extremo alæ Auſtrinæ*	♍.21.31	0.43	B	3
34. *Antepenultima vel 3. Alæ*	♎. 4.34	2.50	B	3
35. *In dextro latere ſub cing.*	♎. 5.54	8.41	B	3
36. *Seq. in al. Bor. boreal. Vin.*	♎. 4.22	16.15	B	3
37. *In Siniſtra manu, Spica.*	♎.18.15	1.59	A	1
LIBRA. 38. *Lanx Auſtrina*	♏. 9.30	0.26	B	2
39. *Lanx Bor. aliis Brach. Luc.*	♏.13.47	8.35	B	2
40. *Tert. ab A. Lanc. ad ort.*	♏.19.32	4.28	B	3
SCORPIO 41. *Supr. in fronte*	♏.27.35	1. 5	B	2
42. *Media in fronte*	♏.26.58	1.54	A	3
43. *Auſtr. trium in front. luc.*	♏.27.24	5.22	A	3
44. *Præcedens cor, ad Boream*	♐. 2.10	3.55	A	4
45. *In medio rut. Antar. ſ. cor*	♐. 4.12	4.27	A	1
46. *Quæ cor ſeq. ad Auſtrum*	♐. 5.52	5.50	A	4
SAGITT. 47. *in ſin. humero*	♑. 6.50	3.31	A	4
48. *Trium in capit. præcedens*	♑. 7.55	1.45	B	4
CAPRICORNUS.				
49. *Borealis 3. in cornu præc.*	♑.28.17	7. 3	B	3
50. *Auſtralis*	♑.28.30	4.41	B	3
51. *Duar. luc. in caud. præced.*	♒.16.13	2.26	A	3
52. *Sequens*	♒.17.59	2.29	A	3
AQVARIUS. 53. *In hum. d.*	♒.27.48	10.42	B	3
54. *In humero ſiniſtro*	♒.17.50	8.42	B	3

Tab. Fixarum Tychonica

Numerus & nom. Fixarum	*Longitud.* S. o. l.	*Lat.* o. l	*Declin.*	*Magn.*
55. In cubito dextro	♓. 1. 5	8.18	B	3
56. Auſtr. in dext. tib. Scheat	♓. 3.21	8.10	A	3
57. Ultima in effuſ. Fomahât	♒.28.10	21. 0	A	1
PISCES.				
58. Duar. in occipite Auſtr.	♓.15.49	7.18	B	4
59. In Lin. Auſtr. Luc. 3 Præc.	♈. 8.35	2.11	B	4
60: Luc. in nexu amb. Lin. No.	♈.23.46	9. 4	A	3
61. Media & Luc. in nexu Bor.	♈.21.15	5.21	B	4
URSA MIN. *62. Polaris*	♊.23. 1	66. 2	B	2
63. Super. 2. in □ Præcedent.	♌. 7.15	72.51	B	2
64. Earundem inferior	♌.14.40	75.23	B	3
URSA M. *65. In genu ſin. ant*	♌. 0.31	34.34	B	3
66. Duar. in dex. pede Boreal.	♋.25.55	29.15	B	3
67. Præcedent. in □ maj. ſup.	♌. 9.33	49 40	B	2
68. Inferior eiusdem Qvadr.	♌.13.42	45. 3	B	2
69 Superior ſeqventium □ti	♌.25.24	51.37	B	2
70. Inferior earundem	♌.24.44	47. 6	B	2
71. Prima vel antepen. caudæ	♍. 3. 9	54.18	B	2
72. Secunda, media vel penul.	♍. 9.55	56.22	B	2
73. Tertia vel ultima	♍.21.11	54.25	B	2
74. Inform. inter caud. hui. ♌	♍.17.42	40. 6	B	2
DRACO *75. Duar. L in c. pr.*	♐. 6.18	75.21	B	3
76. Seqvens	♐.22.23	75. 4	B	3
77. Borea □ ſecundæ Flexuræ	♈.12.25	82.49	B	3
78. Qvæ in Flexura Nodi 3.	♌.29.43	81. 4	B	3
79. Præc. antep. ab extr. Flex.	♎. 7.54	78.23	B	3
80. Penultima Flexurã præc.	♎.12.27	74.12	B	3
81. Ultima ad Flexuram	♍.29.21	71. 4	B	3
82. Qva Flex. proximè ſeqv.	♍. 2. 9	66.36	B	[illegible]
83. Penultima caudæ	♌.10.25	61.33	B	3
84. Ultima caudæ	♌ 4.36	57. 7	B	3

Numerus & nom. Fixarum	*Longitud.* S. o ′.	*Lat.* o. ′	Decl.	Magn.
CEPHEUS. 85. *In Cingulo*	♉. 0.12	71. 7	B	3
86. *Lucida in Humero*	♈. 7.12	68.54	B	3
BOOTES. 87. *In Hum ſiniſtro*	♎.13. 4	49.34	B	3
88. *In Capite*	♎.18.42	54.16	B	3
89. *In dextr. Humer. ſupr. cor*	♎.27.28	49. 1	B	3
90. *Quæ eſt in crure dextro*	♎.27.25	27.57	B	3
91. *Suprema in tibia ſiniſtrâ*	♎.13.41	28. 9	B	3
92. *In fimbria tunicæ, Arctur-*	♎.18.38	31. 3	B	1
CORONA BOREA.				
93. *Lucida Coronæ, Alpheta*	♏. 6.37	44.23	B	2
HERCULES 94. *In capite*	♐.10.30	37.23	B	3
95. *In Humero dextro*	♏.25.26	42.48	B	3
96. *Penultima dextri Brachii*	♏.23.35	40. 6	B	3
97. *In ſiniſtro Humero*	♐. 9. 9	47.47	B	3
98. *Quæ in Coxa Siniſtra*	♏.26. 1	53.11	B	3
99. *In ſin. Sura prop. C. Drac.*	♐.14.16	69.22	B	3
LTR. 100. *Lucida Lyræ.*	♑. 9.42	61.48	B	1
101. *Duar. Præc. in iugo Borea*	♑.13.15	56. 5	B	3
102. *Duar. ſeq. in iugo Borea*	♑.16.10	55. 6	B	3
CYGNUS. 103. *In roſtro*	♑.25.43	49. 2	B	3
104. *In pectore*	♒.19.24	57.10	B	3
105. *In cauda*	♒.29.52	59.5[illegible]	B	2
106. *Prim. in ſuperiori Ala.*	♒.10.52	64.28	B	2
107. *Quæ in ancone infer. Alæ.*	♒.22. 8	49.26	B	3
108 *Extrema inferioris Alæ*	♒.27.42	43.44	B	3
109. *Nova Anni* 1601.	♒.16.18	55.30	B	3
CASSIOP. 110. *In pect. Sched.*	♉. 2.16	46.35	B	3
111. *In Flexura ad Coxas*	♉. 8.26	48.46	B	3
112. *Ad genu*	♉.12.20	46.22	B	3
113. *In crure*	♉.19.12	47.29	B	3
114. *Lucida cathedræ*	♈.29.34	51.14	B	3

n. po.	Longitud.	Anomal.	Longitud.	Anomal.
	S.°.'.''	S.°.'.''	S.°.'.''	S.°.'.''
e I.	8.2.8. 39	8. 14.54.34		
undi			8. 33.54	8. 8.28.29
br.			9. 8.38.10	7. 0.30.40
1	0. 0.44.49	0. 0.43.47	11.29.45.40	11.29.44.38
2	30.29	28.25	11.29.31.20	11.29.29.17
3	16. 9	13. 3	11.29.17. 1	11.29.13.55
4	1.49	11.29.57.42	0. 0. 1.49	11.29.57.42
5	46.38	0. 0.41.29	11.29.47.29	11.29.42.20
6	32.18	26. 7	11.29.33.10	11.29.26.59
7	17.58	10.45	11.29.18.50	11.29.11.37
8	3.38	11.29.55.24	0. 0. 3.38	11.29.55.24
9	48.27	0. 0.39.11	11.29.49.19	11.29.40. 2
10	34. 7	23.49	11.29.34.59	11.29.24.41
11	19.47	8.27	11.29.20.39	11.29. 9.20
12	5.27	11.29.53. 7	0. 0. 5.28	11.29.53. 7
13	50.16	0. 0.36.52	11.29.51. 8	11.29.37.45
14	35.55	21.31	11.29.36.48	11.29.22.23
15	21.35	6. 9	11.29.22.28	11.29. 7. 2
16	7.16	11.29.50.49	0. 0. 7.17	11.29.50.49
17	52. 5	0. 0.34.34	11.29.52.57	11.29.35.27
18	37.45	19.13	11.29.38.37	11.29.20. 5
19	23.25	3.51	11.29.24.18	11.29. 4.44
20	9. 6	11.29.48.30	0. 0. 9. 6	11.29.48.30

Tab. Med. Motuum ☉ in Annis collectis.

Anni	Lō. ☉	Anom. ☉	Anni.	Long. ☉	Anom. ☉
	o. |. ||	S. o. |. ||		S. o | ||	S. o. |. ||
40	0.18.12	11.29.37. 1	800	0. 6. 4. 8	11.22.20.18
60	0.27.19	11.29.25.31	900	0. 6.49.39	11.21.22.50
80	0.36.25	11.29.14. 2	M.	0. 7.35.10	11.20.25.22
100	0.45.31	11.29. 2.32	2M	0.15.10.19	11.10.50.44
200	1.31. 2	11.28. 5. 4	3M	0.22.45.29	11. 1.16. 7
300	2.16.33	11.27. 7.37	4M.	1. 0.20.38	10.21.41.29
400	3. 2. 4	11.26.10. 9	5M.	1. 7.55.48	10.12. 6.51
500	3.47.35	11.25.12.41	6M.	1.15.30.57	10. 2.32.13
600	4.33. 6	11.24.15.13	7M.	1.23. 6. 7	9.22.57.35
700	5.18.37	11.23.17.46	8M.	2. 0.41.17	9.13.22.57

Tab. Med. Mot. ☉ in Menſibus Anni.

	COMMUNIS		*BISSEXTILIS*	
	Longit.	*Anomal.*	*Longit.*	*Anomal.*
	S. o. |. ||	S. o. |. ||.	S. o. |. ||	S. o. |. ||
Jan.	1. 0.33.18	1. 0.33.13	1. 0.33.18	1. 0.33.1
Feb	1.28. 9.11	1.28. 9. 2	1.29. 8.20	1.29. 8.1
Mar	2.28.42.29	2.28.42.15	2.29.41.38	2.29.41.2
Apr.	3.28.16.39	3.28.16.19	3.29.15.48	3.29.15.2
Mai.	4.28.49.58	4.28.49.32	4.29.49. 6	4.29.48.4
Jun.	5.28.24. 8	5.28.23.37	5.29.23.16	5.29.22.4
Jul.	6.28.57.26	6.28.56.50	6.29.56.34	6.29.55.5
Aug.	7.29.30.44	7.29.30. 3	8. 0.29.53	8. 0.29.1
Sep.	8.29. 4.54	8.29. 4. 8	9. 0. 4. 3	9. 0. 3.1
Oct.	9.29.38.12	9.29.37.21	10. 0.37.21	10.0.36.2
Nob.	10.29.12.22	10.29.10.26	11. 0.11.31	11.0.10.3
Dec.	11.29.45.40	11.29.44.38	0. 0.44.49	0.0.43.4

Tab. med. mot. ☉ in Diebus, Horis & Min.

D	Log. ☉	An. ☉	H.	Long. Anō.	Min	Lōg an.
	p. ′. ″	o. ′. ″		o. ′. ″		′. ″ ‴
1	10.59. 8	0.59. 8	1	0. 2. 28	31	1. 16
2	1.58.17	1.58.17	2	0. 4. 56	32	1. 19
3	2.57.25	2.57.25	3	0. 7. 24	33	1. 21
4	3.56.33	3.56.33	4	0. 9. 51	34	1. 24
5	4.55.42	4.55.42	5	0. 12. 19	35	1. 26
6	5.54.50	5.54.49	6	0. 14. 47	36	1. 29
7	6.53.58	6.53.57	7	0. 17. 15	37	1. 31
8	7.53. 7	7.53. 6	8	0. 19. 43	38	1. 34
9	8.52.15	8.52.14	9	0. 22. 11	39	1. 36
10	9.51.23	9.51.22	10	0. 24. 38	40	1. 39
11	10.50.32	10.50.31	11	0. 27. 6	41	1. 41
12	11.49.40	11.49.38	12	0. 29. 34	42	1. 43
13	12.48.48	12.48.46	13	0. 32. 2	43	1. 46
14	13.47.57	13.47.55	14	0. 34. 30	44	1. 48
15	14.47. 5	14.47. 3	15	0. 36. 58	45	1. 51
16	15.46.13	15.46.11	16	0. 39. 26	46	1. 53
17	16.45.21	16.45.19	17	0. 41. 53	47	1. 56
18	17.44.30	17.44.27	18	0. 44. 21	48	1. 58
19	18.43.38	18.43.35	19	0. 46. 49	49	2. 1
20	19.42.47	19.42.44	20	0. 49. 17	50	2. 3
21	20.41.55	20.41.52	21	0. 51. 45	51	2. 6
22	21.41. 3	21.41. 0	22	0. 54. 13	52	2. 8
23	22.40.12	22.40. 9	23	0. 56. 40	53	2. 11
24	23.39.20	23.39.16	24	0. 59. 8	54	2. 13
25	24.38.28	24.38.24	25	1. 1. 36	55	2. 16
26	25.37.37	25.37.33	26	1. 4. 4	56	2. 18
27	26.36.45	26.36.41	27	1. 6. 32	57	2. 20
28	27.35.59	27.35.49	28	1. 8. 59	58	2. 23
29	28.35. 1	28.34.57	29	1. 11. 27	59	2. 25
30	29.34.10	29.34. 5	30	1. 13. 55	60	2. 28
31	30.32.18	30.33.13	′	′ ″ ‴	″	″ ‴
			″	″ ‴ ⁗	‴	‴ ⁗

Si.	0	1	2	3	4	5	
o	'.''	o. '.''	o. '.''	o '.''	o. '.''	'.''	o.
1	2. 5	1. 1.20	1.45.29	2. 2.46	1.47. 9	61.26	29
2	4. 9	1. 3. 8	1.46.33	2. 2.48	1.46. 5	59.31	28
3	6.13	1. 4.54	1.47.35	2. 2.48	1.44.58	57.35	27
4	8.17	1. 6.40	1.48.35	2. 2.47	1.43.49	55.37	26
5	10.20	1. 8.24	1.49.34	2. 2.43	1.42.38	53.37	25
6	12.23	1.10. 7	1.50.31	2. 2.35	1.41.25	51.36	24
7	14.26	1.11.48	1.51.26	2. 2.23	1.40. 9	49.34	23
8	16.29	1.13.28	1.52.17	2. 2. 9	1.38.52	47.31	22
9	18.32	1.15. 7	1.53. 6	2. 1.53	1.37.34	45.28	21
10	20.35	1.16.45	1.53.54	2. 1.36	1.36.14	43.25	20
11	22.37	1.18.22	1.54.41	2. 1.17	1.34.52	41.21	19
12	24.38	1.19.58	1.55.27	2. 0.56	1.33.28	39.16	18
13	26.39	1.21.32	1.56.10	2. 0.32	1.32. 2	37.10	17
14	28.40	1.23. 5	1.56.49	2. 0. 6	1.30.34	35. 3	16
15	30.41	1.24.37	1.57.27	1.59.38	1.29. 3	32.55	15
16	32.41	1.26. 8	1.58. 3	1.59. 8	1.27.31	30.46	14
17	34.41	1.27.37	1.58.36	1.58.36	1.25.57	28.36	13
18	36.40	1.29. 4	1.59. 8	1.58. 1	1.24.21	26.26	12
19	38.39	1.30.29	1.59.38	1.57.24	1.22.44	24.16	11
20	40.37	1.31.53	2. 0. 6	1.56.45	1.21. 6	22. 5	10
21	42.34	1.33.16	2. 0.32	1.56. 3	1.19.27	19.54	9
22	44.30	1.34.37	2. 0.56	1.55.20	1.17.47	17.43	8
23	46.26	1.35.57	2. 1.17	1.54.35	1.16. 5	15.31	7
24	48.21	1.37.15	2. 1.36	1.53.48	1.14.21	13.19	6
25	50.15	1.38.30	2. 1.52	1.52.58	1.12.34	11. 6	5
26	52. 8	1.39.44	2. 2. 6	1.52. 5	1.10.45	8.53	4
27	54. 0	1.40.56	2. 2.18	1.51. 9	1. 8.55	6.40	3
28	55.52	1.42. 6	2. 2.28	1.50.12	1. 7. 4	4.27	2
29	57.43	1.43.15	2. 2.36	1.49.13	1. 5.12	2.13	1
30	59.32	1.44.23	2. 2.42	1.48.12	1. 3.19	0. 0	0
	11	10	9	8	7	6	Si.

Tab. Fixarum Tychonica

Numerus & nom. Fixarum	*Longitud.* S. o. '	*Lat.* o. '	*Declin.*	*Magn.*
I. ASTER. ZODIACI				
ARIES.				
1. *Auſtr. in pr. cornu* ♈	♈.27.36	7. 8	B	4
2. *Boreal. ac ſeq. in eod. cornu*	♈.28.22	8.29	B	4
3. *Lucida in vertice C. Princ.*	♉. 2. 5	9.57	B	3
4. *Præcedens trium in cauda*	♉.15.14	1.46	B	4
5. *Infor. ſup. dorſ. 4or in* △	♉.12.39	10.24	B	3
TAURUS.				
6. *In facie Suc. prima in nar.*	♊. 0.11	5.47	A	3
7. *Inter hanc & oculum bor.*	♊. 1.15	4. 2	A	3
8. *Aldebaran ſ. Palilicium*	♊. 4.11	5.31	A	1
9. *In boreo oculo*	♊. 2.52	2.37	A	3
10. *In extremit. cornu bor.*	♊.16.58	5.20	B	2
11. *Media & lucida Pleiadu*	♉.24 23	4. 0	B	3
GEMINI				
12. *Caſtor, Apollo.*	♋.14.40	10. 2	B	2
13. *Pollux, Hercules*	♋.17.42	6.38	B	2
14. *In bor. & ſupr. genu Sup.*	♋. 4.21	2.11	B	3
15. *In Siniſtro genu ſeqvent.*	♋. 9.25	2. 7	A	3
16. *In ventre merid. gemini.*	♋.12.55	6.14	A	3
17. *Seqv. in pede præc. Calx*	♊.29.43	0.53	A	3
18. *Lucida pedis*	♋. 3.30	6.49	A	2
19. *Præcedens ad ſumm. ped.*	♊.25.21	0.13	A	4
CANCER.				
20 *Nebuloſa in pect. Præſep.*	♌. 1.45	1.14	B	N.
21. *Aſellus boreus*	♌. 1.56	3. 8	B	4
22. *Aſellus auſtrinus*	♌. 3. 7	0. 4	A	4
23. *In brachio Auſtrino.*	♌. 8. 2	5. 8	A	3
LEO.				
24. *In capit. duar. auſtralior.*	♌.15. 4	9.40	B	3
25. *In collo trium borea.*	♌.21.56	11.50	B	3

Numerus & nom. Fixarum	*Longitud.* S. o. '	*Lat.* o. '	*Decl.*	*Magn.*
26. *Media & lucida colli*	♌.23.58	8.47	B	2
27. *Auſtralis*	♌.23.19	4.52	B	3
28. *Cor, Regulus, Baſiliſcus*	♌.24.16	0.26	B	1
29. *Sequens 2. in lumbis, Luc.*	♍. 5.40	14.20	B	2
30. *In clune 2. Præced. & Bor.*	♍. 7.49	9.41	B	3
31. *In femore*	♍.11.57	6. 7	B	3
32. *Cauda*	♍.16. 2	12.18	B	1
VIRGO.				
33. *In extremo alæ Auſtrinæ*	♍.21.31	0.43	B	3
34. *Antepenultima vel 3. Alæ*	♎. 4.34	2.50	B	3
35. *In dextro latere ſub cing.*	♎. 5.54	8.41	B	3
36. *Seq. in al. Bor. boreal. Vin.*	♎. 4.22	16.15	B	3
37. *In Siniſtra manu, Spica.*	♎.18.15	1.59	A	1
LIBRA. 38. *Lanx Auſtrina*	♏. 9.30	0.26	B	2
39. *Lanx Bor. aliis Brach. Luc.*	♏.13.47	8.35	B	2
40. *Tert. ab A. Lanc. ad ort.*	♏.19.32	4.28	B	3
SCORPIO 41. *Supr. in fronte*	♏.27.35	1. 5	B	2
42. *Media in fronte*	♏.26.58	1.54	A	3
43. *Auſtr. trium in front. luc.*	♏.27.24	5.22	A	3
44. *Præcedens cor, ad Boream*	♐. 2.10	3.55	A	4
45. *In medio rut. Antar. ſ. cor*	♐. 4.12	4.27	A	1
46. *Quæ cor ſeq. ad Auſtrum*	♐. 5.52	5.50	A	4
SAGITT. 47. *in ſin. humero*	♑. 6.50	3.31	A	4
48. *Trium in capit. præcedens*	♑. 7.55	1.45	B	4
CAPRICORNUS.				
49. *Borealis 3. in cornu præc.*	♑.28.17	7. 3	B	3
50. *Auſtralis*	♑.28.30	4.41	B	3
51. *Duar. luc. in caud. præced.*	♒.16.13	2.26	A	3
52. *Sequens*	♒.17.59	2.29	A	3
AQVARIUS. 53. *In hum. d.*	♒.27.48	10.42	B	3
54. *In humero ſiniſtro*	♒.17.50	8.42	B	3

Tab. Fixarum Tychonica

Numerus & nom. Fixarum	*Longitud.* S. o. /.	*Lat.* o. /	*Declin.*	*Magn.*
55. In cubito dextro	♓. 1. 5	8.18	B	3
56. Auſtr. in dext. tib. Scheat	♓. 3.21	8.10	A	3
57. Ultima in effuſ. Fomahāt	♒.28.10	21. 0	A	1
PISCES.				
58. Duar. in occipite Auſtr.	♓.15.49	7.18	B	4
59. In Lin. Auſtr Luc. 3 Præc.	♈. 8.35	2.11	B	4
60. Luc. in nexu amb. Lin. No.	♈.23.46	9. 4	A	3
61. Media & Luc. in nexu Bor.	♈.21.15	5.21	B	4
URSA MIN. 62. *Polaris*	♊.23. 1	66. 2	B	2
63. Super. 2. in □ Præcedent.	♌. 7.15	72.51	B	2
64. Earundem inferior	♌.14.40	75.23	B	3
URSA M. *65. In genu ſin. ant*	♌. 0.31	34.34	B	3
66. Duar. in dex. pede Boreal.	♋.25.55	29.15	B	3
67. Præcedent. in □ maj. ſup.	♌. 9.33	49 40	B	2
68. Inferior eiusdem Qvadr.	♌.13.42	45. 3	B	2
69 Superior ſeqventium □ti	♌.25.24	51.37	B	2
70. Inferior earundem	♌.24.44	47. 6	B	2
71. Prima vel antepen. caudæ	♍. 3. 9	54.18	B	2
72. Secunda, media vel penul.	♍. 9.55	56.22	B	2
73. Tertia vel ultima	♍.21.11	54.25	B	2
74. Inform. inter caud. hui. ♌	♍.17.42	40. 6	B	2
DRACO *75. Duar. L in c. pr.*	♐. 6.18	75.21	B	3
76. Seqvens	♐.22.23	75. 4	B	3
77. Borea □ ſecundæ Flexuræ	♈.12.25	82.49	B	3
78. Qvæ in Flexura Nodi 3.	♌.29.43	81. 4	B	3
79. Præc. antep. ab extr. Flex.	♎. 7.54	78.23	B	3
80. Penultima Flexurā præc.	♎.12.27	74.12	B	3
81. Ultima ad Flexuram	♍.29.21	71. 4	B	3
82. Qvæ Flex. proxime ſeqv.	♍. 2. 9	66.36	B	[illegible]
83. Penultima caudæ	♌.10.25	61.33	B	3
84. Ultima caudæ	♌ 4.36	57. 7	B	3

Numerus & nom. Fixarum	Longitud. S. o /.	Lat. o. /	Decl.	Magn.
CEPHEUS. 85. *In Cingulo*	♉. 0.12	71. 7	B	3
86. *Lucida in Humero*	♈. 7.12	68.54	B	3
BOOTES. 87. *In Hum ſiniſtro*	♎.13. 4	49.34	B	3
88. *In Capite*	♎.18.42	54.16	B	3
89. *In dextr. Humer. ſupr. cor*	♎.27.28	49. 1	B	3
90. *Quæ eſt in crure dextro*	♎.27.25	27.57	B	3
91. *Suprema in tibia ſiniſtra*	♎.13.41	28. 9	B	3
92. *In fimbria tunicæ. Arctur-*	♎.18.38	31. 3	B	1
CORONA BOREA.				
93. *Lucida Coronæ, Alpheta*	♏. 6.37	44.23	B	2
HERCULES 94. *In capite*	♐.10.30	37.23	B	3
95. *In Humero dextro*	♏.25.26	42.48	B	3
96. *Penultima dextri Brachii*	♏.23.35	40. 6	B	3
97. *In ſiniſtro Humero*	♐. 9. 9	47.47	B	3
98. *Quæ in Coxa Siniſtra*	♏.26. 1	53.11	B	3
99. *In ſin. Sura prop. C. Drac.*	♐.14.16	69.22	B	3
LTR, 100. *Lucida Lyræ.*	♑. 9.42	61.48	B	1
101. *Duar. Præc. in iugo Borea*	♑.13.15	56. 5	B	3
102. *Duar. ſeq. in iugo Borea*	♑.16.10	55. 6	B	3
CYGNUS. 103. *In roſtro*	♑.25.43	49. 2	B	3
104. *In pectore*	♒.19.24	57.10	B	3
105. *In cauda*	♒.29.52	59.57	B	2
106. *Prim. in ſuperiori Ala.*	♒.10.52	64.28	B	2
107. *Quæ in ancone infer. Alæ.*	♒.22. 8	49.26	B	3
108 *Extrema inferioris Alæ*	♒.27.42	43.44	B	3
109. *Nova Anni* 1601.	♒.16.18	55.30	B	3
CASSIOP. 110. *In pect. Sched.*	♉. 2.16	46.35	B	3
111. *In Flexura ad Coxas*	♉. 8.26	48.46	B	3
112. *Ad genu*	♉.12.20	46.22	B	3
113. *In crure*	♉.19.12	47.29	B	3
114. *Lucida cathedræ*	♈.29.34	51.14	B	3

Numerus & nom. Fixarum	Longitud.	Lat.	Declin.	Magn.
	S. o. '	o. '		
PERSEUS 115. *Dextr. hum.*	♉.24.25	34.30	B	3
116. *Fulgens in dextro Latere*	♉.26.16	30. 5	B	2
117. *Quæ eſt ad Flex. eius Lat.*	♉.29.14	27.14	B	3
118. *Caput Meduſæ, Algol*	♉.20.36	22.22	B	3
119. *Quæ in Siniſtro genu*	♊. 0. 7	19. 4	B	3
ERICHTHONIUS.				
120. *In Siniſt. Hum. fulg. Cap.*	♊.16.15	22.51	B	1
121. *Lucida in dextro Humer.*	♊.25.51	21.27	B	2
122. *Præcedens Hoedus*	♊.13. 4	18. 8	B	4
123. *Sequens Hoedus*	♊.13.48	18.11	B	4
COMA BERENICES.				
124. *In Cuſpide 1. & Bor. △li*	♍.18.16	28.25	B	3
OPHIUCHUS. 125. *in Capi.*	♐.16.49	35.57	B	3
126. *In dextro Humero*	♐.19.44	28. 1	B	3
127. *Inf. & ſeq. in dextr. Hum.*	♐.21. 4	26.11	B	3
128. *In ſiniſtra manu Borealior*	♏.26.43	17.19	B	3
129. *Sequens & Auſtralior*	♏.27.56	16.31	B	3
130. *In dextro genu*	♐.12.23	7.18	B	3
131. *Quæ in ſiniſtro genu*	♐. 3.38	11.30	B	3
SERPENS. 132. *Quæ in ore eſt*	♏.14.23	39. 7	B	3
133. *Quæ in temporibus*	♏.17. 5	35.25	B	3
134. *In eductione colli*	♏.14.20	34.28	B	3
135. *Sec. in collo infra caput*	♏.12.45	28.58	B	3
136. *In medio nexu colli*	♏.16.49	25.36	B	2
137. *Auſtralior trium*	♏.18.45	24. 6	B	3
138. *Antepenultima caudæ*	♐.24.33	19.57	B	3
139. *Penultima*	♑. 0.11	20.38	B	3
140. *Ultima*	♑.10. 9	26.59	B	3
SAGITTA.				
141. *Sup. 2. contig. in Glyphide*	♑.25.29	38.53	B	3
VULTUR. 142. *In collo*	♑.26.52	26.50	B	3
143. *Lucida in Scapul. Aquil.*	♑.26. 8	29.22	B	2

Numerus & nom. Fixarum	*Longitud.* S. o /.	*Lat.* o. /	Decl.	Magn.
144. *Quæ in ſiniſtro Humero*	♑.25.25	31.18	B	3
145. *Cauda*	♑.14.14	36.17	B	3
146. *Caud. prox. Præc. Infor.*	♑.12.43	37.40	B	3
ANTINOUS. 147. *Manus ſin.*	♑.29.20	18.48	B	3
148. *Latus dextrum*	♑.20.16	20.15	B	3
149. *Genu*	♑.19.16	14.28	B	3
DELPH. 150. *Lucida caudæ*	♒. 8.32	29. 8	B	3
151. *In Rhomb. Lat. Præc. Bor.*	♒.11.49	33. 5	B	3
152. *Quæ eſt in capite*	♒.13.51	32.47	B	3
EQVUL. 153. *Præced. capitis*	♒.17.31	20.13	B	4
154. *Seqvens oris*	♒.18.53	24.52	B	4
PEGASUS. 155. *Os Pegaſi*	♒.26.21	22. 8	B	3
156. *Lucida colli*	♓.10.38	17.41	B	3
157. *Dextrum genu, Enif.*	♓.20. 9	35. 8	B	3
158. *Prima alæ, Marchab.*	♓.17.55	19.26	B	2
159. *Eductio cruris; Scheat*	♓.23.48	31. 8	B	2
160 *Extrema Ala*	♈. 3.37	12.35	B	2
ANDROMEDA. 161. *Caput*	♈. 8.46	25.42	B	2
162. *Auſtralior in Cingulo*	♈.24.48	25.55	B	2
163. *In Auſtrali pede lucida*	♉. 8.38	27.40	B	2
164. *Clarior & ſup. in ſin. ſcap.*	♈.16.18	24.20	B	3
TRIANGULUS.				
165. *In apice Trianguli*	♉. 1.18	16.49	B	4
ASTERISMORUM AUSTRALIUM.				
CETE. 166. *Lucida mandib.*	♉. 8.46	12.37	A	2
167. *Media in ore*	♉. 3.52	12. 3	A	3
168. *Præced. trium ad genam*	♉. 2. 1	14.32	A	3
169. *Seqv. in pect. Præc. & Bor.*	♈.27.46	25.58	A	3
170. *Borea ventris*	♈.16.24	20.19	A	3
171. *Borealis caudæ*	♓.25.22	10. 1	A	3
172. *Auſtralis & lucida caudæ*	♓.26.55	20.47	A	2

Numerus & nom. Fixarum	*Longitud.* S. o. ′	*Lat.* o. ′	*Declin.*	*Magn.*
ORION. 173. *lucidus Humer.*	♊.23.11	16. 6	A	2
174. *Siniſter ſ. Præc. Humerus*	♊.15.22	16.53	A	2
175. *Prima balthei*	♊.16.49	23.38	A	2
176. *Media*	♊.17.53	24.34	A	2
177. *Ultima*	♊.19. 5	25.22	A	2
178. *In manubrio enſis*	♊.14.36	25.37	A	3
179. *Media enſis*	♊.17.23	28.45	A	3
180. *Auſtralis*	♊.17.26	29.17	A	3
181. *Lucid. in Sini ped. Rigel.*	♊.11.16	31.12	A	1
ERIDANUS.				
182. *Supra pedem Or. in fluv.*	♊. 9.41	27.55	A	3
183. *Poſt intervall. ſeqv. 4. Pr.*	♉.12.44	27.47	A	3
LEP. 184. *Qvæ in dorſo*	♊.15.48	41. 6	A	3
185. *In armo ſiniſtro*	♊.14. 5	43.58	A	3
186. *Duar. in poſt. ped. Auſtr.*	♊.19.20	45.50	A	3
187. *Borealior earundem*	♊.21.35	44.18	A	3
CANIS MAJOR.				
188. *In ore ſplendidiſſ. Sirius*	♋. 8.34	39.30	A	1
189. *Qvæ ſub ſiniſtra aure.*	♋.14. 5	38. 3	A	3
190. *Qvæ in extr. ped. prior*	♋. 1.41	41.19	A	2
191. *Qvæ in ventre*	♋.17.54	48.30	A	3
192. *Qvæ in cauda*	♋.24.10	51.25	A	3
CANIS MIN. 193. *In collo*	♋.16.38	13.34	A	3
194. *In femore, Procyon*	♋.20.17	15.57	A	2
ARG. 195. *Qvæ in ſup. puppi*	♌. 5.52	43.19	A	3
196. *Præcedens clypei*	♋.27.59	47.28	A	3
HYD. 197. *Luc. Hydr. ſive cor*	♌.21.44	22.24	A	1
CRATER.				
198 *Præcedens 2. in medio*	♍.21. 9	17.25	A	4
CORVUS.				
199. *Duar. ſup. in* □ *Præced.*	♎. 5.12	14.25	A	3
200 *Seqvens inferiorum in* □	♎.11.48	17.59	A	3

T. Med. Mot. pro FIXIS

Epoche	Praec. S. o. ′ ″	Anom. S. o. ″
P. Jul.	11.19.14.21	9.15.19
Mund	0. 0. 1.49	0. 0.13
Christ.	1.24.50.53	1. 6.37

Tab. Annorum | T. Mensium

A.	Praec. ′ ″	Anõ o. ′	Mens	pr ′	Anõ ′ ″
1	0.50	0. 6	Jan.	4	0.30
2	1.40	0.12	Feb.	8	1. 0
3	2.29	0.18	Mar	12	1.30
4	3.19	0.24	Apr.	17	2. 0
5	4. 9	0.30	Mai	21	2.30
6	4.59	0.36	Jun.	25	3. 0
7	5.48	0.42	Jul.	29	3.30
8	6.38	0.48	Aug.	34	4. 0
9	7.28	0.54	Sep.	38	4.30
10	8.18	1. 0	Oct.	42	5. 0
20	16.36	2. 0	Nov.	46	5.30
40	33.11	4. 0	Dec.	50	6. 0

Anni	Praecessio S. o. ′ ″	Anom. S. o.
60	0. 0.49.47	0. 6
80	0. 1. 6.23	0. 8
1C.	0. 1.22.58	0. 10
2C.	0. 2.45.57	0. 20
4C.	0. 5.31.54	1. 10
6C.	0. 8.17.50	2. 0
8C.	0. 11. 3.47	2. 20
1M.	0. 13.49.44	3. 10
2M.	0. 27.39.28	6. 20
4M.	1. 25.18.55	1. 10
6M.	2. 22.58.24	8. 0
8M.	3. 20.47.52	2. 20

T. Scrup. Prop. pro fixi[s]

Si	0. 6	1. 7	2. 8	gn
o	′ ″	′ ″	′ ″	o
1	1. 3	31. 5	52.19	29
2	2. 5	31.58	52.48	28
3	3. 8	32.50	53.16	27
4	4.10	33.41	53.44	26
5	5.12	34.31	54.11	25
6	6.14	35.21	54.37	24
7	7.16	36.10	55. 2	23
8	8.18	36.58	55.27	22
9	9.21	37.46	55.51	21
10	10.23	38.33	56.14	20
11	11.25	39.20	56.36	19
12	12.26	40. 6	56.57	18
13	13.27	40.52	57.17	17
14	14.28	41.37	57.36	16
15	15.28	42.22	57.54	15
16	16.29	43. 6	58.11	14
17	17.29	43.49	58.27	13
18	18.29	44.33	58.41	12
19	19.30	45.16	58.54	11
20	20.30	45.58	59. 5	10
21	21.29	46.39	59.15	9
22	22.28	47.19	59.24	8
23	23.26	47.57	59.32	7
24	24.24	48.34	59.39	6
25	25.22	49. 9	59.45	5
26	26.20	49.43	59.50	4
27	27.18	50.16	59.54	3
28	28.16	50.48	59.57	2
29	29.14	51.19	59.59	1
30	30.11	51.49	60. 0	0
Si	11. 5	10. 4	9. 3	gn.

G	0	1	2	3	4	5	
0	l. ll	l. ll	l. ll	l. ll	l. ll	l. ll	
1	0.28	14. 0	23.50	27. 4	23.31	13.20	29
2	0.56	14.25	24. 4	27. 3	23.16	12.54	28
3	1.24	14.49	24.17	27. 2	23. 0	12.28	27
4	1.52	15.13	24.30	27. 1	22.44	12. 2	26
5	2.20	15.36	24.43	27. 0	22.28	11.36	25
6	2.48	15.59	24.56	26.58	22.12	11.10	24
7	3.16	16.21	25. 8	26.56	21.55	10.44	23
8	3.44	16.43	25.19	26.53	21.38	10.17	22
9	4.12	17. 5	25.30	26.49	21.20	9.50	21
10	4.40	17.27	25.40	26.45	21. 2	9.23	20
11	5. 8	17.49	25.49	26.41	20.43	8.56	19
12	5.36	18.10	25.57	26.37	20.24	8.28	18
13	6. 4	18.31	26. 4	26.32	20. 5	8. 0	17
14	6.32	18.52	26.11	26.27	19.45	7.33	16
15	7. 0	19.13	26.17	26.22	19.25	7. 5	15
16	7.28	19.33	26.22	26.15	19. 5	6.37	14
17	7.55	19.52	26.27	26. 8	18.44	6. 9	13
18	8.22	20.11	26.32	26. 1	18.23	5.41	12
19	8.49	20.30	26.36	25.54	18. 2	5.12	11
20	9.16	20.49	26.40	25.47	17.40	4.44	10
21	9.43	21. 8	26.44	25.38	17.18	4.15	9
22	10.10	21.27	26.48	25.28	16.56	3.46	8
23	10.36	21.45	26.51	25.17	16.33	3.18	7
24	11. 2	22. 2	26.54	25. 5	16.10	2.49	6
25	11.28	22.18	26.57	24.52	15.47	2.20	5
26	11.54	22.34	26.59	24.39	15.24	1.52	4
27	12.20	22.50	27. 1	24.26	15. 1	1.24	3
28	12.45	23. 6	27. 3	24.13	14.37	0.56	2
29	13.10	23.21	27. 4	24. 0	14.12	0.28	1
30	13.35	23.36	27. 5	23.46	13.46	0. 0	0
	11	10	9	8	7	6	G

T. Exceſſuum pro FIXIS.

S.	0	1	2	3	4	5	
G.	I. II	I. II	I. II	I. II	I. II	I. II	
1	21.46	20.12	16. 9	10.42	5.17	1.21	29
2	21.45	20. 6	15.59	10.30	5. 8	1.16	28
3	21.45	19.59	15.49	10.19	4.58	1.11	27
4	21.44	19.53	15.39	10. 7	4.48	1. 6	26
5	21.43	19.47	15.29	9.56	4.39	1. 1	25
6	21.42	19.41	15.19	9.44	4.29	0.57	24
7	21.40	19.35	15. 9	9.33	4.20	0.53	23
8	21.38	19.29	14.58	9.21	4.11	0.49	22
9	21.36	19.22	14.47	9.10	4. 2	0.45	21
10	21.33	19.15	14.36	8.59	3.53	0.41	20
11	21.31	19. 7	14.26	8.48	3.44	0.37	19
12	21.28	19. 0	14.16	8.36	3.35	0.34	18
13	21.26	18.52	14. 5	8.25	3.27	0.31	17
14	21.24	18.44	13.54	8.14	3.19	0.28	16
15	21.21	18.36	13.43	8. 3	3.11	0.25	15
16	21.18	18.28	13.32	7.53	3. 3	0.22	14
17	21.15	18.19	13.21	7.43	2.55	0.19	13
18	21.12	18.10	13.10	7.32	2.47	0.17	12
19	21. 9	18. 2	12.58	7.21	2.39	0.15	11
20	21. 5	17.53	12.47	7.10	2.31	0.13	10
21	21. 1	17.44	12.36	6.59	2.24	0.11	9
22	20.57	17.35	12.24	6.48	2.17	0. 9	8
23	20.53	17.26	12.13	6.38	2.11	0. 7	7
24	20.49	17.16	12. 2	6.27	2. 4	0. 5	6
25	20.45	17. 7	11.50	6.17	1.57	0. 3	5
26	20.40	16.57	11.39	6. 7	1.51	0. 2	4
27	20.35	16.48	11.27	5.57	1.45	0. 1	3
28	20.30	16.39	11.16	5.47	1.39	0. 1	2
29	20.25	16.29	11. 4	5.37	1.33	0. 0	1
30	20.19	16.19	10.53	5.27	1.27	0. 0	0
	11	10	9	8	7	6	G.

Tab. Mediorum motuum Lunæ

An-	Longitudo	Anomalia	Latitudo	ni
Epo-	S. °. '. ''	S. °. '. ''	S. °. '. ''	char-
Mun	9. 0. 6.15	8.25. 3.35	8.19. 4.30	di
Chri-	7. 6.19.38	7. 4.14.22	7.16.40. 0	ſti
I.	4. 9.37.22	2.28.43. 8	4.28.42.46	I.
II.	8.19.14.45	5.27.26.16	9.27.25.32	II.
III.	0.28.52. 7	8.26. 9.24	2.26. 8.18	III.
IV.	5.20.40.57	0. 7.56.26	8. 8. 4.49	IV.
V.	10. 0.18.19	3. 6.39.34	1. 6.47.35	V.
VI.	2. 9.55.41	6. 5.22.42	6. 5.30.21	VI.
VII.	6.19.33. 4	9. 4. 5.50	11. 4.13. 7	VII.
VIII.	11.11.21.53	0.15.52.53	4.16. 9.38	VIII.
IX.	3.20.59.15	3.14.36. 1	9.14.52.24	IX.
X.	8. 0.36.38	6.13.19. 9	2.13.35.10	X.
XI.	0.10.14. 0	9.12. 2.17	7.12.17.56	XI.
XII.	5. 2. 2.50	0.23.49.19	0.24.14.27	XII.
XIII	9.11.40.12	3.22.32.27	5.22.57.13	XIII.
XIV.	1.21.17.34	6.21.15.35	10.21.39.59	XIV.
XV	6. 0.54.57	9.19.58.43	3.20.22.45	XV.
XVI.	10.22.43.46	1. 1.45.45	9. 2.19.16	XVI.
XVII.	3. 2.21. 8	4. 0.28.53	2. 1. 2. 2	XVII.
XVIII.	7.11.58.31	6.29.12. 1	6.29.44.48	XVIII.
XIX.	11.21.35.53	9.27.55.10	11.28.27.34	XIX.
XX.	4.13.24.43	1. 9.42.12	5.10.24. 6	XX.
	IN ANNIS JULIA-			
XL.	8.26.49.25	2.19.24.23	10.20.48.11	XL.
LX.	1.10.14. 8	3.29. 6.35	4. 1.12.17	LX.
LXXX.	5.23.38.50	5. 8.48.46	9.11.36.22	LXXX.
C.	10. 7. 3.33	6.18.30.58	2.22. 0.28	C.
CC.	8.14. 7. 5	1. 7. 1.56	5.14. 9.56	CC.
CCC.	6.21.10.38	7.25.32.54	8. 6. 1.24	CCC.
CCCC.	4.28.14.11	2.14. 3.52	10.28. 1.52	CCCC.
D.	3. 5.17.44	9. 2.34.51	1.20. 2.20	D.
DC.	1.12.21.17	3.21. 5.49	4.12. 2.47	DC.
DCC.	11.19.24.49	10. 9.36.47	7. 4. 3.15	DCC.

rium in annis Jul. Singulis

An	*Longitudo*	*Anomalia*	*Latitudo.*	*ni*
Epo-	S.o.'.''	S.o.'.''	S.o.'.''	*cha*
Per.	8.10.41.19	3.28.22.31	4.26. 7.11	*Jul.*
I.	4.21.48.49	3.11.47. 2	5.11.56.31	I.
II.	9. 1.26.11	6.10.30.10	10.10.39.17	II.
III.	1.11. 3.33	9. 9.13.18	3. 9.22. 3	III.
IV.	5.20.40.57	0. 7.56.26	8. 8. 4.49	IV.
V.	10.12.29.46	3.19.43.28	1.20. 1.20	V.
VI.	2.22. 7. 9	6.18.26.36	6.18.44. 6	VI.
VII.	7. 1.44.31	9.17. 9.44	11.17.26.52	VII.
VIII.	11.11.21.53	0.15.52.53	4.16. 9.38	VIII.
IX.	4. 3.10.42	3.27.39.54	9.28. 6. 9	IX.
X.	8.12.48. 5	6.26.23. 2	2.26.48.55	X.
XI.	0.22.25.27	9.25. 6.10	7.25.31.41	XI.
XII.	5. 2. 2.50	0.23.49.19	0.24.14.27	XII.
XIII.	9.23.51.40	4. 5.36.20	6. 6.10.58	XIII.
XIV.	2. 3.29. 3	7. 4.19.28	11. 4.53.44	XIV.
XV.	6.13. 6.25	10. 3. 2.36	4. 3.36.30	XV.
XVI.	10.22.43.46	1. 1.45.45	9. 2.19.16	XVI.
XVII.	3.14.32.35	4.13.32.46	2.14.15.47	XVII.
XVIII.	7.24. 9.57	7.12.15.54	7.12.58.33	XVIII.
XIX.	0. 3.47.20	10.10.59. 2	0.11.41.19	XIX.
XX.	4.13.24.43	1. 9.42.12	5.10.24. 6	XX.

NIS COLLECTIS

Dccc.	9.26.28.22	4.28. 7.45	9.26. 3.43	Dccc.
Dcccc	8. 3.31.55	11.16.38.43	0.18. 4.11	Dcccc
M.	6.10.35.28	6. 5. 9.41	3.10. 4.39	M.
2M.	0.21.10.55	0.10.19.22	6.20. 9.18	2M.
3M.	7. 1.46.23	6.15.29. 3	10. 0.13.57	3M.
4M.	1.12.21.50	0.20.38.44	1.10.18.36	4M.
5M.	7.22.57.18	6.25.48.25	4.20.23.16	5M.
6M.	2. 3.32.46	1. 0.58. 7	8. 0.27.55	6M.
7M	8.14. 8.14	7. 6. 7.48	11.10.32.34	7M
8M.	2.24.43. 4	1.12. 7.28	2.20.37.12	8M.

In Menſibus Anni Juliani

COMMUNIS.

Menſ. Numer. nom. Dies q; ab A init. cõtinui	Longitudo	Anomalia	Latitudo
	S. o. '. ''	S. o. '. ''	S. o. '. ''
Januar: 31	0.17.54.47	1.15. 0.52	1.20. 6.36
Februar. 59	11.29.15.15	1.20.50. 2	2. 0.31.55
Martius 90	0.17.10. 2	3. 5.50.55	3.20.38.30
Aprilis 120	0.22.53.23	4. 7.47.53	4.27.31.20
Maius 151	1.10.48.11	5.22.48.45	6.17.37.55
Junius 181	1.16.31.32	6.24.45.43	7.24.30.47
Julius 212	2. 4.26.20	8. 9.46.35	9.14.37.21
Auguſt. 243	2.22.21. 7	9.24.47.27	11. 4.43.56
Septem. 273	2.28. 4.28	10.26.44.26	0.11.36.46
October 304	3.15.59.15	0.11.45.18	2. 1.43.21
Nov. 334	3.21.42.36	1.13.42.16	3. 8.36.11
Dec. 365	4. 9.37.23	2.28.43. 8	4.28.42.46

BISSEXTILIS.

Mēſ. num nomina dies q; ab A. init. cõtinui	Longitudo	Anomalia	Latitudo
	S. o. '. ''	S. o. '. ''	S. o. '. ''
Januar. 31	0.17.54.47	1.15. 0.52	1.20. 6.36
Febr. 60	0.11.26.41	2. 3.53.56	2.13.45.49
Martius 91	0.29.21.29	3.18.54.49	4. 3.52.16
Aprilis 121	1. 5. 4.50	4.20.51.47	5.10.45. 6
Maius 152	1.22.59.37	6. 5.52.39	7. 0.51.41
Junius 182	1.28.42.58	7. 7.49.37	8. 7.44.31
Julius 213	2.16.37.45	8.22.50.29	9.27.51. 6
Auguſt. 244	3. 4.32.32	10. 7.51.22	11.17.57.41
Sept. 274	3.10.15.53	11. 9.48.20	0.24.50.31
Octob. 305	3.28.10.41	0.24.49.12	2.14.57. 7
Nov. 335	4. 3.54. 2	1.26.46.10	3.21.49.57
Dec. 366	4.21.48.49	3.11.47. 2	5.11.56.35

Dies	*Longitudo* S. o. ʹ ʺ	*Anomalia.* S. o. ʹ ʺ	*Latitudo.* S. o. ʹ ʺ	Dies
1	0.12.11.27	0.13. 3.54	0.13.13.46	1
2	0.24.22.53	0.26. 7.48	0.26.27.31	2
3	1. 6.34.20	1. 9.11.42	1. 9.41.17	3
4	1.18.45.47	1.22.15.36	1.22.55. 3	4
5	2. 0.57.13	2. 5.19.30	2. 6. 8.48	5
6	2.13. 8.40	2.18.23.24	2.19.22.34	6
7	2.25.20. 7	3. 1.27.18	3. 2.36.20	7
8	3. 7.31.34	3.14.31.12	3.15.50. 5	8
9	3.19.43. 0	3.27.35. 5	3.29. 3.51	9
10	4. 1.54.27	4.10.38.59	4.12.17.37	10
11	4.14. 5.54	4.23.42.53	4.25.31.22	11
12	4.26.17.20	5. 6.46.47	5. 8.45. 8	12
13	5. 8.28.47	5.19.50.41	5.21.58.54	13
14	5.20.40.14	6. 2.54.35	6. 5.12.39	14
15	6. 2.51.40	6.15.58.29	6.18.26.25	15
16	6.15. 3. 7	6.29. 2.23	7. 1.40.11	16
17	6.27.14.34	7.12. 6.17	7.14.53.56	17
18	7. 9.26. 0	7.25.10.11	7.28. 7.42	18
19	7.21.37.27	8. 8.14. 5	8.11.21.28	19
20	8. 3.48.54	8.21.17.59	8.24.35.13	20
21	8.16. 0.21	9. 4.21.53	9. 7.48.59	21
22	8.28.11.47	9.17.25.47	9.21. 2.44	22
23	9.10.23.14	10. 0.29.41	10. 4.16.30	23
24	9.22.34.41	10.13.33.35	10.17.30.16	24
25	10. 4.46. 7	10.26.37.28	11. 0.44. 1	25
26	10.16.57.34	11. 9.41.22	11.13.57.47	26
27	10.29. 9. 1	11.22.45.16	11.27.11.33	27
28	11.11.20.27	0. 5.49.10	0.10.25.18	28
29	11.23.31.54	0.18.53. 4	0.23.39. 4	29
30	0. 5.43.21	1. 1.56.58	1. 6.52.50	30
31	0.17.54.47	1.15. 0.52	1.20. 6.35	31

T. Med. Mot. ☽ in Horis & Min.

Hora	*Longitudo*	*Anomalia.*	*Latitudo.*
	o. I. II	o. I. II	o. I. II
1	0. 30. 29	0. 32. 40	0. 33. 5
2	1. 0. 57	1. 5. 19	1. 6. 10
3	1. 31. 26	1. 37. 59	1. 39. 14
4	2. 1. 54	2. 10. 39	2. 12. 19
5	2. 32. 23	2. 43. 19	2. 45. 23
6	3. 2. 52	3. 15. 58	3. 18. 27
7	3. 33. 20	3. 48. 38	3. 51. 32
8	4. 3. 49	4. 21. 18	4. 24. 36
9	4. 34. 18	4. 53. 58	4. 57. 41
10	5. 4. 46	5. 26. 37	5. 30. 45
11	5. 35. 15	5. 59. 17	6. 3. 49
12	6. 5. 43	6. 31. 57	6. 36. 54
13	6. 36. 12	7. 4. 37	7. 9. 58
14	7. 6. 41	7. 37. 16	7. 43. 3
15	7. 37. 9	8. 9. 56	8. 16. 7
16	8. 7. 38	8. 42. 36	8. 49. 11
17	8. 38. 6	9. 15. 16	9. 22. 16
18	9. 8. 35	9. 47. 55	9. 55. 20
19	9. 39. 4	10. 20. 35	10. 28. 25
20	10. 9. 32	10. 53. 15	11. 1. 29
21	10. 40. 1	11. 25. 55	11. 34. 33
22	11. 10. 29	11. 58. 34	12. 7. 38
23	11. 40. 58	12. 31. 14	12. 40. 42
24	12. 11. 27	13. 3. 54	13. 13. 46
25	12. 41. 55	13. 36. 34	13. 46. 51
26	13. 12. 24	14. 9. 13	14. 19. 55
27	13. 42. 53	14. 41. 53	14. 53. 0
28	14. 13. 21	15. 14. 33	15. 26. 4
29	14. 43. 50	15. 47. 13	15. 59. 8
30	15. 14. 19	16. 19. 52	16. 32. 13
I.	I. II. III	I. II. III	I. II. III
II.	II. III. IV	II. III. IV	II. III IV

T. Med. mot. ☽ pro ſcrup.			
Scr.	Long.	Anom.	Lat.
	I. II	I. II	I. II
31	15.45	16.53	17. 5
32	16.15	17.25	17.38
33	16.46	17.58	18.11
34	17.16	18.31	18.44
35	17.47	19. 3	19.18
36	18.17	19.36	19.51
37	18.48	20. 9	20.24
38	19.18	20.41	20.57
39	19.49	21.14	21.30
40	20.19	21.46	22. 3
41	20.50	22.19	22.36
42	21.20	22.52	23. 9
43	21.51	23.24	23.42
44	22.21	23.57	24.15
45	22.51	24.30	24.48
46	23.22	25. 2	25.21
47	23.52	25.35	25.54
48	24.23	26. 8	26.28
49	24.53	26.40	27. 1
50	25.24	27.13	27.34
51	25.54	27.46	28. 7
52	26.25	28.18	28.40
53	26.55	28.51	29.13
54	27.26	29.24	29.46
55	27.56	29.56	30.19
56	28.27	30.29	30.52
57	28.57	31. 2	31.25
58	29.28	31.34	31.58
59	29.58	32. 7	32.31
60	30.29	32.40	33. 4
I I	II. III	II. III	II. III

Tab. Fixarum Tychonica

Numerus & nom. Fixarum	*Longitud.* S. o. l.	*Lat.* o. l	*Declin.*	*Magn.*
55. *In cubito dextro*	♓. 1. 5	8.18	B	3
56. *Auſtr. in dext. tib. Scheat*	♓. 3.21	8.10	A	3
57. *Ultima in effuſ. Fomahāt*	♒.28.10	21. 0	A	1
PISCES.				
58. *Duar. in occipite Auſtr.*	♓.15.49	7.18	B	4
59. *In Lin. Auſtr Luc. 3 Præc.*	♈. 8.35	2.11	B	4
60. *Luc. in nexu amb. Lin. No.*	♈.23.46	9. 4	A	3
61. *Media & Luc. in nexu Bor.*	♈.21.15	5.21	B	4
URSA MIN. 62. *Polaris*	♊.23. 1	66. 2	B	2
63. *Super. 2. in □ Præcedent.*	♌. 7.15	72.51	B	2
64. *Earundem inferior*	♌.14.40	75.23	B	3
URSA M. 65. *In genu ſin. ant*	♌. 0.31	34.34	B	3
66. *Duar. in dex. pede Boreal.*	♋.25.55	29.15	B	3
67. *Præcedent. in □ maj. ſup.*	♌. 9.33	49 40	B	2
68. *Inferior eiusdem Qvadr.*	♌.13.42	45. 3	B	2
69 *Superior ſeqventium □ti*	♌.25.24	51.37	B	2
70. *Inferior earundem*	♌.24.44	47. 6	B	2
71. *Prima vel antepen. caudæ*	♍. 3. 9	54.18	B	2
72. *Secunda, media vel penul.*	♍. 9.55	56.22	B	2
73. *Tertia vel ultima*	♍.21.11	54.25	B	2
74. *Inform. inter caud. hui.* ♌	♍.17.42	40. 6	B	2
DRACO 75. *Duar. L in c. pr.*	♐. 6.18	75.21	B	3
76. *Seqvens*	♐.22.23	75. 4	B	3
77. *Borea □ ſecundæ Flexuræ*	♈.12.25	82.49	B	3
78. *Qvæ in Flexura Nodi 3.*	♌.29.43	81. 4	B	3
79. *Præc. antep. ab extr. Flex.*	♎. 7.54	78.23	B	3
80. *Penultima Flexurā præc.*	♎.12.27	74.12	B	3
81. *Ultima ad Flexuram*	♍.29.21	71. 4	B	3
82. *Qvæ Flex. proximè ſeqv.*	♍. 2. 9	66.36	B	2
83. *Penultima caudæ*	♌.10.25	61.33	B	3
84. *Ultima caudæ*	♌ 4.36	57. 7	B	3

Tab. Elongationis ☽ a centro.

Si	0	1	2	3	4	5	gna
G-	Partic.	Partic.	Partic.	Part.	Part.	Part.	G.
1	102899	102584	101691	100327	98789	97553	29
2	102898	102563	101652	100276	98740	97523	28
3	102896	102542	101613	100225	98691	97494	27
4	102894	102520	101573	100174	98643	97466	26
5	102891	102497	101532	100123	98595	97439	25
6	102888	102474	101491	100072	98547	97413	24
7	102884	102450	101449	100021	98500	97388	23
8	102879	102426	101407	99969	98453	97364	22
9	102873	102401	101365	99917	98407	97341	21
10	102867	102375	101322	99865	98361	97320	20
11	102860	102348	101279	99813	98316	97299	19
12	102853	102321	101235	99761	98272	97279	18
13	102845	102293	101191	99709	98228	97260	17
14	102836	102265	101146	99657	98185	97242	16
15	102826	102236	101101	99605	98142	97225	15
16	102816	102206	101055	99553	98100	97209	14
17	102805	102176	101009	99501	98059	97194	13
18	102793	102145	100963	99449	98018	97180	12
19	102781	102114	100916	99397	97978	97167	11
20	102768	102082	100869	99345	97938	97155	10
21	102755	102049	100821	99293	97899	97144	9
22	102741	102016	100773	99242	97861	97134	8
23	102726	101982	100725	99191	97824	97126	7
24	102711	101948	100676	99140	97787	97120	6
25	102695	101913	100627	99089	97751	97115	5
26	102678	101877	100578	99038	97716	97111	4
27	102660	101841	100528	98987	97682	97108	3
28	102642	101804	100478	98937	97649	97105	2
29	102623	101767	100428	98887	97616	97102	1
30	102604	101729	100378	98838	97584	97100	0
Si	11	10	9	8	7	6	gna

Tab. Eccentricitatis pro Luna.

Si	0.	I.	II.	III.	IV.	V.	gr.
G.	Eccent.	Eccent.	Eccent.	Eccent.	Eccent.	Ecc.	Gr.
1	38	1162	2207	3102	3784	4210	29
2	76	1198	2240	3128	3803	4219	28
3	114	1235	2272	3154	3821	4228	27
4	152	1271	2304	3180	3839	4236	26
5	190	1307	2336	3206	3857	4245	25
6	228	1344	2368	3231	3874	4253	24
7	265	1380	2400	3256	3891	4261	23
8	303	1416	2432	3281	3908	4268	22
9	341	1451	2463	3306	3924	4275	21
10	379	1487	2494	3331	3940	4282	20
11	417	1523	2525	3355	3956	4288	19
12	454	1558	2556	3379	3972	4294	18
13	492	1594	2587	3403	3987	4300	17
14	530	1629	2617	3426	4002	4306	16
15	568	1664	2647	3449	4017	4311	15
16	605	1699	2677	3472	4031	4316	14
17	643	1734	2707	3495	4045	4320	13
18	680	1769	2737	3518	4059	4324	12
19	718	1804	2766	3540	4073	4328	11
20	755	1838	2795	3562	4086	4332	10
21	792	1872	2824	3584	4099	4335	9
22	830	1906	2853	3605	4111	4338	8
23	867	1940	2881	3626	4123	4340	7
24	904	1974	2909	3647	4135	4342	6
25	941	2008	2937	3667	4147	4344	5
26	978	2042	2965	3687	4158	4345	4
27	1015	2075	2993	3707	4169	4346	3
28	1052	2108	3021	3727	4180	4347	2
29	1089	2141	3048	3746	4190	4348	1
30	1125	2174	3075	3765	4200	4348	0
Si	XI.	X.	IX.	VIII.	VII.	VI.	gr.

T. Variat. ☽ pro Signis ſex prim. Add. reliqvis S.

Si	0.6	1.7	2.8 gna	
G.	I. II	I. II	I. II	G.
1	0.43	20.51	35.25	29
2	1.26	21.27	35.45	28
3	2. 8	22. 3	36. 5	27
4	2.50	22.38	36.24	26
5	3.32	23.13	36.42	25
6	4.14	23.48	37. 0	24
7	4.56	24.22	37.17	23
8	5.38	24.56	37.33	22
9	6.20	25.29	37.48	21
10	7. 2	26. 2	38. 3	20
11	7.44	26.34	38.17	19
12	8.26	27. 6	38.30	18
13	9. 7	27.37	38.43	17
14	9.48	28. 8	38.55	16
15	10.29	28.38	39. 7	15
16	11.10	29. 8	39.18	14
17	11.51	29.37	39.28	13
18	12.31	30. 6	39.37	12
19	13.11	30.34	39.45	11
20	13.51	31. 1	39.53	10
21	14.31	31.28	40. 0	9
22	15.10	31.55	40. 6	8
23	15.49	32.21	40.12	7
24	16.28	32.46	40.17	6
25	17. 7	33.11	40.21	5
26	17.45	33.35	40.25	4
27	18.23	33.58	40.27	3
28	19. 1	34.21	40.28	2
29	19.38	34.43	40.29	1
30	20.15	35. 4	40.30	0
Si.	11. 5	10. 4	9. 3	gn

Tab. red. ☽ ad Eclipt. *Superius S. infer. A.*

Si	0.6	1.7	2.8 gna	
	I. II	I. II	I. II	G.
1	0.15	6.12	5.57	29
2	0.30	6.18	5.48	28
3	0.45	6.24	5.39	27
4	0.59	6.29	5.30	26
5	1.13	6.35	5.21	25
6	1.27	6.40	5.12	24
7	1.42	6.44	5. 1	23
8	1.56	6.47	4.51	22
9	2.10	6.51	4.50	21
10	2.24	6.54	5.29	20
11	2.38	6.56	4.18	19
12	2.52	6.57	4. 7	18
13	3. 6	6.58	3.55	17
14	3.19	6.59	3.42	16
15	3.32	7. 0	3.31	15
16	3.43	6.59	3.18	14
17	3.56	6.58	2. 5	13
18	4. 8	6.57	2.51	12
19	4.19	6.56	2.38	11
20	4.30	6.54	2.23	10
21	4.41	6.51	2. 9	9
22	4.54	6.47	1.55	8
23	5. 2	6.44	1.41	7
24	5.13	6.40	1.26	6
25	5.22	6.35	1.12	5
26	5.31	6.28	0.58	4
27	5.40	6.23	0.45	3
28	5.49	6.17	0.30	2
29	5.58	6.11	0.15	1
30	6. 6	6. 5	0. 0	0
Si	11. 5	10. 4	3. 9	gna

T.Parall. ☉ & ☽ ad diſt. in Semid. terræ in fac.

Ǵ.T.1288	52	53	54	55	56	57	58
alt Sol.	Lun.	Lun.	Lun.	Lun.	Lun.	Lun.	Lun.
o	′ ″	′ ″	′ ″	′ ″	′ ″	′ ″	′ ″	′ ″
1	2.40	66. 6	64.51	63.39	62.29	61.23	60.19	59.17
2	2.40	66. 5	64.51	63.39	62.28	61.22	60.18	59.16
3	2.40	66. 4	64.50	63.38	62.27	61.21	60.17	59.15
4	2.39	66. 1	64.47	63.35	62.25	61.18	60.15	59.12
5	2.39	65.57	64.43	63.31	62.21	61.14	60.11	59. 8
6	2.39	65.52	64.38	63.26	62.16	61.10	60. 7	59. 3
7	2.38	65.46	64.32	63.20	62.10	61. 4	60. 1	58.57
8	2.38	65.38	64.24	63.12	62. 3	60.57	59.54	58.50
9	2.37	65.29	64.15	63. 3	61.54	60.48	59.46	58.42
10	2.37	65.19	64. 5	62.53	61.45	60.39	59.37	58.33
11	2.36	65. 8	63.54	62.42	61.34	60.28	59.27	58.23
12	2.36	64.55	63.41	62.30	61.22	60.16	59.16	58.12
13	2.35	64.41	63.28	62.17	61. 9	60. 3	59. 3	57.59
14	2.35	64.26	63.14	62. 3	60.55	59.49	58.48	57.45
15	2.34	64.10	62.57	61.47	60.39	59.34	58.32	57.30
16	2.34	63.53	62.40	61.31	60.22	59.18	58.16	57.14
17	2.33	63.35	62.22	61.13	60. 4	59. 1	57.59	56.57
18	2.32	63.15	62. 3	60.54	59.46	58.42	57.40	56.40
19	2.31	62.54	61.43	60.34	59.27	58.22	57.21	56.21
20	2.31	62.32	61.21	60.12	59. 6	58. 1	57. 1	56. 1
21	2.30	62. 8	60.58	59.49	58.44	57.40	56.40	55.40
22	2.29	61.44	60.34	59.26	58.21	57.18	56.18	55.18
23	2.28	61.19	60. 9	59. 2	57.57	56.54	55.54	54.54
24	2.27	60.52	59.42	58.36	57.31	56.29	55.29	54.29
25	2.26	60.24	59.15	58. 9	57. 5	56. 3	55. 4	54. 4
26	2.25	59.55	58.47	57.41	56.38	55.36	54.38	53.39
27	2.24	59.25	58.17	57.12	56.10	55. 8	54.11	53.13
28	2.23	58.54	57.46	56.42	55.40	54.39	53.42	52.45
29	2.21	58.22	57.14	56.11	55. 9	54. 9	53.12	52.16
30	2.19	57.48	56.42	55.39	54.37	53.38	52.42	51.47

59 Lun.	60 Lun	S. pro port.	Ano Lun	SOL. Sem.	LUN. Sem.	UMBR. Sem.	V.	mal. min.
l. ll	l. ll	l. ll	S. G.	l. ll	l. ll	l. ll	l	G. S.
58.16	57.18	1. 3	0. 6	15. 0	16. 0	43. 1	0	24.11
58.15	57.17	2. 5	0.12	15. 1	16. 1	43. 2	1	18.11
58.14	57.16	3. 8	0.18	15. 2	16. 2	43. 6	2	12.11
58.11	57.13	4.11	0.24	15. 3	16. 3	43. 9	3	6.11
58. 7	57. 9	5.13	1. 0	15. 4	16. 4	43.14	4	0.11
58. 3	57. 5	6.15	1. 6	15. 6	16. 6	43.19	6	24.10
57.58	57. 0	7.18	1.12	15. 8	16. 8	43.25	9	18.10
57.51	56.53	8.21	1.18	15.10	16.10	43.33	12	12.10
57.43	56.44	9.23	1.24	15.12	16.12	43.41	15	6.10
57.34	56.35	10.25	2. 0	15.15	16.15	43.49	18	0.10
57.24	56.25	11.27	2. 6	15.18	16.18	43.58	21	24. 9
57.13	56.14	12.28	2.12	15.21	16.21	44. 9	24	18. 9
57. 1	56. 2	13.30	2.18	15.24	16.24	44.20	27	12. 9
56.47	55.49	14.31	2.24	15.26	16.27	44.31	30	6. 9
56.32	55.35	15.32	3. 0	15.29	16.30	44.43	34	0. 9
56.16	55.20	16.33	3. 6	15.32	16.33	44.55	37	24. 8
56. 0	55. 4	17.33	3.12	15.35	16.36	45. 7	40	18. 8
55.43	54.47	18.32	3.18	15.38	16.39	45.19	43	12. 8
55.24	54.29	19.32	3.24	15.41	16.42	45.31	46	6. 8
55. 4	54.10	20.31	4. 0	15.43	16.44	45.44	49	0. 8
54.44	53.50	21.30	4. 6	15.46	16.46	45.56	51	24. 7
54.22	53.28	22.28	4.12	15.49	16.49	46. 7	52	18. 7
53.59	53. 5	23.26	4.18	15.51	16.51	46.17	53	12. 7
53.34	52.40	24.23	4.24	15.53	16.53	46.27	54	6. 7
53. 9	52.15	25.21	5. 0	15.55	16.55	46.36	55	0. 7
52.44	51.50	26.18	5. 6	15.57	16.57	46.44	55	24. 6
52.18	51.25	27.15	5.12	15.58	16.58	46.50	55	18. 6
51.51	50.59	28.11	5.18	15.59	16.59	46.55	56	12. 6
51.23	50.32	29. 6	5.24	15.59	16.59	46.58	56	6. 6
50.54	50. 5	30. 0	6. 0	16. 0	17. 0	47. 0	56	0. 6

S.T. 1288		52	53	54	55	56	57	58
alt Sol.		Lun.	Lun.	Lun.	Lun.	Lun.	Lun.	Lun.
°	′ · ″	′ · ″	′ · ″	′ · ″	′ · ″	′ · ″	′ · ″	′ · ″
31	2.17	57.13	56. 9	55. 6	54. 4	53. 6	52.10	51.16
32	2.16	56.38	55.34	54.32	53.30	52.33	51.37	50.44
33	2.14	56. 2	54.58	53.57	52.55	51.59	51. 4	50.10
34	2.12	55.25	54.21	53.21	52.20	51.24	50.30	49.35
35	2.11	54.46	53.43	52.43	51.44	50.48	49.55	48.59
36	2. 9	54. 5	53. 4	52. 4	51. 7	50.11	49.18	48.23
37	2. 7	53.24	52.24	51.24	50.29	49.33	48.41	47.46
38	2. 6	52.42	51.43	50.44	49.49	48.54	48. 3	47. 9
39	2. 5	52. 0	51. 1	50. 3	49. 8	48.15	47.24	46.31
40	2. 3	51.17	50.18	49.21	48.27	47.35	46.44	45.53
41	2. 1	50.32	49.34	48.38	47.45	46.53	46. 3	45.14
42	1.59	49.46	48.49	47.54	47. 2	46.10	45.21	44.34
43	1.57	48.59	48. 3	47. 9	46.18	45.27	44.38	43.53
44	1.55	48.11	47.16	46.23	45.33	44.43	43.55	43.11
45	1.53	47.23	46.29	45.36	44.46	43.58	43.12	42.28
46	1.51	46.34	45.41	44.48	43.59	43.12	42.28	41.44
47	1.49	45.44	44.51	44. 0	43.11	42.25	41.43	40.58
48	1.47	44.53	44. 1	43.11	42.23	41.38	40.57	40.11
49	1.45	44. 1	43.10	42.21	41.34	40.50	40. 9	39.24
50	1.43	43. 8	42.18	41.30	40.44	40. 1	39.20	38.37
51	1.41	42.14	41.26	40.39	39.54	39.11	38.30	37.49
52	1.38	41.20	40.33	39.47	39. 3	38.20	37.40	37. 0
53	1.36	40.25	39.39	38.54	38.11	37.29	36.49	36.10
54	1.34	39.29	38.43	38. 0	37.18	36.37	35.58	35.20
55	1.32	38.32	37.47	37. 5	36.24	35.45	35. 7	34.29
56	1.29	37.34	36.50	36.10	35.30	34.52	34.15	33.38
57	1.27	36.36	35.52	35.14	34.35	33.57	33.23	32.47
58	1.25	35.37	34.54	34.17	33.39	33. 2	32.29	31.55
59	1.23	34.37	33.56	33.19	32.43	32. 7	31.34	31. 1
60	1.20	33.37	32.58	32.21	31.46	31.11	30.38	30. 6

altitud. in marg.

59 Par ☽	60 Par. ☽	Scr. Pro port.
I. II	I. II	I. II
50.24	49.36	30.53
49.52	49. 6	31.46
49.19	48.34	32.39
48.46	48. 0	33.32
48.12	47.25	34.24
47.37	46.49	35.15
47. 1	46.14	36. 6
46.24	45.38	36.56
45.46	45. 0	37.45
45. 8	44.22	38.34
44.28	43.43	39.22
43.47	43. 3	40. 9
43. 6	42.24	40.54
42.24	41.43	41.40
41.41	41. 0	42.25
40.58	40.18	43.10
40.14	39.35	43.53
39.29	38.50	44.35
38.44	38. 5	45.17
37.58	37.19	45.58
37.11	36.32	46.38
36.23	35.45	47.17
35.34	34.57	47.55
34.44	34. 9	48.32
33.54	33.20	49. 9
33. 4	32.30	49.44
32.13	31.40	50.19
31.21	30.49	50.53
30.28	29.57	51.26
29.35	29. 5	51.58

T. Refr. ſin circ. vertic.

Altit.	Solis	Lunæ	Stellar.
	I. II	I. II	I. II
0	34. 0	33. 0	30. 0
1	26. 0	25. 0	21.30
2	20. 0	20. 0	15.30
3	17. 0	17. 0	12.30
4	15.30	15.20	11. 0
5	14.30	14.20	10. 0
6	13.30	13.50	9. 0
7	12.45	12.45	8.15
8	11.15	12. 0	6.45
9	10.30	11.20	6. 0
10	10. 0	10.45	5.30
11	9.30	10.10	5. 0
12	9. 0	9.35	4.30
13	8.30	9. 0	4. 0
14	8. 0	8.30	3.30
15	7.30	8. 0	3. 0
16	7. 0	7.30	2.30
17	6.30	7. 0	2. 0
18	5.45	6.30	1.15
19	5. 0	6. 0	1. 0
20	4.30	5.30	0. 0

T. Par. ☉ & ☽ ad diſtant. a Sem. in facie

S.T.1288	52	53	54	55	56	57	58
alt Lun	Lun.	Lun.	Lun.	Lun.	Lun.	Lun.	Lun.
°. ′. ″	′. ″	′. ″	′. ″	′. ″	′. ″	′. ″	′. ″
61 1.18	32.36	31.58	31.22	30.48	30.14	29.42	29.11
62 1.15	31.34	30.58	30.23	29.49	29.17	28.46	28.16
63 1.13	30.32	29.57	29.23	28.50	28.19	27.49	27.20
64 1.10	29.29	28.56	28.23	27.50	27.21	26.52	26.24
65 1. 8	28.26	27.54	27.22	26.50	26.22	25.54	25.27
66 1. 5	27.22	26.51	26.21	25.50	25.23	24.56	24.30
67 1. 3	26.18	25.48	25.19	24.50	24.23	23.57	23.32
68 1. 0	25.13	24.44	24.16	23.49	23.23	22.58	22.34
69 0.58	24. 8	23.40	23.13	22.48	22.22	21.59	21.36
70 0.55	23. 2	22.35	22.10	21.46	21.21	20.59	20.37
71 0.53	21.56	21.30	21. 6	20.43	20.20	19.59	19.38
72 0.50	20.49	20.25	20. 2	19.40	19.19	18.59	18.39
73 0.47	19.41	19.19	18.58	18.36	18.18	17.58	17.38
74 0.44	18.32	18.13	17.54	17.32	17.16	16.56	16.37
75 0.41	17.22	17. 6	16.49	16.28	16.14	15.53	15.36
76 0.38	16.15	15.59	15.43	15.24	15.11	14.50	14.35
77 0.36	15. 8	14.52	14.36	14.19	14. 7	13.47	13.34
78 0.33	14. 1	13.45	13.29	13.14	13. 2	12.44	12.33
79 0.30	12.52	12.37	12.23	12. 9	11.57	11.41	11.31
80 0.28	11.43	11.29	11.16	11. 4	10.52	10.38	10.29
81 0.25	10.33	10.21	10. 9	9.58	9.47	9.35	9.26
82 0.22	9.23	9.13	9. 2	8.53	8.42	8.32	8.24
83 0.19	8.13	8. 5	7.55	7.48	7.37	7.29	7.21
84 0.16	7. 3	6.57	6.48	6.43	6.32	6.25	6.18
85 0.13	5.52	5.48	5.40	5.36	5.27	5.21	5.16
86 0.11	4.42	4.38	4.32	4.29	4.22	4.17	4.13
87 0. 8	3.32	3.28	3.24	3.21	3.17	3.13	3.10
88 0. 6	2.21	2.19	2.16	2.14	2.11	2. 8	2. 6
89 0. 3	1. 9	1.10	1. 8	1. 7	1. 5	1. 4	1. 3
90 0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0

altitud. in marg. | Ref Tab. Refr. ☉ & ☽

59 Par ☽	60 Par. ☽	Scr. Proport.
′. ″	′. ″	′. ″
28.41	28.12	52.29
27.47	27.19	52.59
26.52	26.25	53.28
25.57	25.31	53.56
25. 1	24.36	54.23
24. 4	23.40	54.49
23. 7	22.44	55.14
22.10	21.48	55.38
21.13	20.52	56. 0
20.15	19.55	56.22
19.17	18.58	56.43
18.19	18. 0	57. 3
17.20	17. 2	57.22
16.20	16. 4	57.40
15.20	15. 5	57.58
14.20	14. 7	58.13
13.20	13. 8	58.27
12.20	12. 9	58.41
11.19	11. 9	58.53
10.18	10. 8	59. 5
9.17	9. 7	59.16
8.15	8. 7	59.25
7.13	7. 7	59.33
6.11	6. 6	59.40
5. 9	5. 5	59.46
4. 7	4. 4	59.51
3. 5	3. 3	59.55
2. 3	2. 2	59.57
1. 1	1. 1	59.59
0. 0	0. 0	60. 0

Altit.	Solis Refr.	Lunæ Refr.
°	′. ″	′. ″
21	4. 0	5. 0
22	3. 30	4.35
23	3. 10	4.10
24	2. 50	3.45
25	2. 30	3.20
26	2. 15	3. 0
27	2. 0	2.40
28	1. 45	2.20
29	1. 35	2. 0
30	1. 25	1.45
31	1. 15	1.30
32	1. 5	1.20
33	0. 55	1.10
34	0. 45	1. 0
35	0. 35	0.50
36	0. 30	0.45
37	0. 25	0.40
38	0. 20	0.35
39	0. 15	0.30
40	0. 10	0.25
41	0. 9	0.20
42	0. 8	0.15
43	0. 7	0.10
44	0. 6	0. 5
45	0. 5	0. 0

T. Mot. ☽. Horar. in ☌ & ☍ & ultra

Si	0		I		II		gn
	In ☌ ☍	Ultra	In ☌ ☍	Ultra	In ☌ ☍	Ultra	
G.	ʹ. ʺ	ʹ.ʺ	ʹ.ʺ	ʹ.ʺ	ʹ.ʺ	ʹ.ʺ	G.
3	27.44	27.12	28. 8	27.39	29. 9	28.57	27
6	27.45	27.13	28.13	27.45	29.17	29. 8	24
9	27.45	27.14	28.18	27.51	29.25	29.19	21
12	27.47	27.15	28.23	27.58	29.33	29.29	18
15	27.48	27.16	28.29	28. 5	29.41	29.41	15
18	27.51	27.19	28.35	28.12	29.49	29.52	12
21	27.53	27.22	28.41	28.20	29.58	30. 4	9
24	27.57	27.26	28.47	28.29	30. 6	30.17	6
27	28. 0	27.30	28.54	28.38	30.15	30.29	3
30	28. 4	27.34	29. 1	28.46	30.24	30.42	0
Si	XI		X		IX		gna
Si	III		IV		V		gna
3	30.33	30.55	31.58	33. 5	33. 3	34.53	27
6	30.41	31. 7	32. 6	33.18	33. 7	35. 0	24
9	30.50	31.20	32.14	33.30	33.11	35. 8	21
12	30.58	31.33	32.21	33.41	33.14	35.14	18
15	31. 7	31.46	32.28	33.54	33.17	35.18	15
18	31.17	32. 0	32.35	34. 5	33.20	35.24	12
21	31.26	32.15	32.41	34.17	33.21	35.29	9
24	31.34	32.28	32.47	34.26	33.23	35.32	6
27	31.43	32.41	32.53	34.36	33.24	35.34	3
30	31.51	32.53	32.58	34.45	33.24	35.37	0
	VIII.		VII.		VI.		

Tab. mutat. Sem. ☽ in Eclipſ. ob aerem

	°	°	°	°	° ʹ	°	°	°	°	°	°
E. poli	30	40	46	50	51.52	53.	56.	59.	62.	65.	69
	ʹ	ʹʹ	ʹʹ	ʹʹ	ʹ. ʺ	ʹ ʹ	ʹ.ʹ ʹ	ʹ.ʺ	ʹ.ʺ	ʹ.ʺ	ʹ
☌ Sub	10	30	40	50	1.36	2. 0	3.30	4.30	5.15	5.45	6
☍ ad.	6	20	30	34	1. 3	1.20	2.20	3. 0	3.30	3.50	4

Tab. Med. motuum SATURN.
Ad Epoch. Per Julian. Mundi & Chriſti & Annos Julianos SINGULOS.

Epo-chæ	Longitudo	Anomalia	Longitudo	Anomalia
	S. o. ′. ″	S. o. ′. ″	S. o. ′. ″	S. o. ′. ″
P.J.	0. 9.31.42	8. 3.43.37		
M.			5.23.28.44	1. 0.59.24
Chr.			2.12.32.51	6.21.44.39
1	0.12.15.35	0.12.14.15	0.12.13.35	0.12.12.15
2	0.24.29.11	0.24.26.30	0.24.27.11	0.24.24.30
3	1. 6.42.46	1. 6.38.46	1. 6.40.46	1. 6.36.46
4	1.18.56.22	1.18.51. 1	1.18.56.22	1.18.51. 1
5	2. 1.11.57	2. 1. 5.16	2. 1. 9.57	2. 1. 3.16
6	2.13.25.32	2.13.17.32	2.13.23.32	2.13.15.3
7	2.25.39. 8	2.25.29.47	2.25.37. 8	2.25.27.4
8	3. 7.52.44	3. 7.42. 3	3. 7.52.44	3. 7.42.
9	3.20. 8.20	3.19.56.18	3.20. 6.20	3.19.54.1
10	4. 2.21.55	4. 2. 8.33	4. 2.19.55	4. 2. 6.3
11	4.14.35.30	4.14.20.48	4.14.33.30	4.14.18.4
12	4.26.49. 6	4.26.33. 4	4.26.49. 6	4.26.33. 4
13	5. 9. 4.42	5. 8.47.19	5. 9. 2.42	5. 8.45.19
14	5.21.18.17	5.20.59.34	5.21.16.17	5.20.57.34
15	6. 3.31.52	6. 3.11.49	6. 3.29.52	6. 3. 9.49
16	6.15.45.28	6.15.24. 5	6.15.45.28	6.15.24. 5
17	6.28. 1. 4	6.27.38.20	6.27.59. 4	6.27.36.20
18	7.10.14.39	7. 9.50.36	7.10.12.39	7. 9.48.36
19	7.22.28.15	7.22. 2.51	7.22.26.15	7.22. 0.51
20	8. 4.41.51	8. 4.15. 7	8. 4.41.51	8. 4.15. 7

b. Proſtaphæreſium Nodor. Signi Sup. A. inf. S.

	o. o.	VI.	I.	VII.	II.	VIII.	gnum
	Proſt.	Scr.	Proſt.	Scr.	Proſt.	Scr.	Gr.
	o. ′. ″	′. ″	o. ′. ″	′. ″	o. ′. ″	′. ″	
1	0. 3.50	0. 1	1.35.12	16.18	1.28.34	46.13	29
2	0. 7.39	0. 4	1.36.47	17.15	1.26.30	47. 5	28
3	0.11.27	0. 9	1.38.12	18.13	1.24.21	47.54	27
4	0.15.14	0.16	1.39.31	19.11	1.22. 6	48.43	26
5	0.19. 0	0.26	1.40.42	20.10	1.19.45	49.31	25
6	0.22.46	0.41	1.41.45	21. 9	1.17.18	50.19	24
7	0.26.29	0.56	1.42.44	22. 9	1.14.46	51. 4	23
8	0.30. 9	1.13	1.43.38	23.10	1.12. 9	51.47	22
9	0.33.47	1.32	1.44.29	24.11	1. 9.27	52.28	21
0	0.37.23	1.53	1.45. 8	25.13	1. 6.41	53. 8	20
1	0.40.56	2.16	1.45.34	26.16	1. 3.49	53.46	19
2	0.44.26	2.41	1.45.50	27.19	1. 0.51	54.23	18
3	0.47.52	3. 8	1.45.56	28.22	0.57.50	54.59	17
4	0.51.14	3.38	1.45.59	29.25	0.54.47	55.33	16
5	0.54.32	4.10	1.46. 0	30.28	0.51.42	56. 6	15
6	0.57.47	4.43	1.45.53	31.30	0.48.32	56.36	14
7	1. 0.56	5.18	1.45.36	32.33	0.45.18	57. 3	13
8	1. 4. 0	5.54	1.45.13	33.35	0.42. 0	57.28	12
9	1. 6.59	6.32	1.44.41	34.37	0.38.40	57.52	11
0	1. 9.53	7.12	1.44. 0	35.39	0.35.18	58.14	10
1	1.12.42	7.54	1.43.10	36.41	0.31.53	58.35	9
2	1.15.25	8.38	1.42.14	37.42	0.28.26	58.53	8
3	1.18. 2	9.24	1.41.10	38.43	0.24.57	59. 9	7
4	1.20.33	10.13	1.39.59	39.43	0.21.26	59.22	6
5	1.22.58	11. 2	1.38.42	40.41	0.17.54	59.33	5
6	1.25.16	11.51	1.37.18	41.38	0.14.21	59.43	4
7	1.27.28	12.41	1.35.46	42.35	0.10.46	59.50	3
8	1.29.34	13.33	1.34. 8	43.31	0. 7.11	59.55	2
9	1.31.34	14.27	1.32.23	44.26	0. 3.36	59.58	1
0	1.33.28	15.22	1.30.22	45.20	0. 0. 0	60. 0	0
	V.	XI	IV.	X.	III.	IX.	

Si	o. B	VI. A.	B. I.	VII. A.	B. II.	VIII. A.	gni
	Latit.	*Exc.*	*Latit.*	*Exc.*	*Latit.*	*Exc.*	
G.	o. ' ''	' ''	o. ' ''	' ''	o. ' ''	' ''	G.
1	0. 5.13	0.20	2.33.36	9.45	4.20.59	16.35	29
2	0.10.25	0.40	2.38. 3	10. 2	4.23.28	16.45	28
3	0.15.36	0.59	2.42.26	10.18	4.25.53	16.55	27
4	0.20.47	1.19	2.46.46	10.35	4.28.13	17. 4	26
5	0.25.58	1.39	2.51. 4	10.51	4.30.28	17.12	25
6	0.31. 9	1.59	2.55.19	11. 7	4.32.38	17.20	24
7	0.36.19	2.19	2.59.30	11.23	4.34.43	17.28	23
8	0.41.29	2.38	3. 3.38	11.39	4.36.43	17.36	22
9	0.46.38	2.57	3. 7.43	11.55	4.38.38	17.43	21
10	0.51.46	3.17	3.11.44	12.11	4.40.27	17.51	20
11	0.56.53	3.36	3.15.42	12.26	4.42.11	17.58	19
12	1. 1.59	3.55	3.19.36	12.41	4.43.50	18. 5	18
13	1. 7. 4	4.15	3.23.26	12.56	4.45.23	18.12	17
14	1.12. 8	4.34	3.27.13	13.10	4.46.52	18.18	16
15	1.17.10	4.53	3.30.56	13.24	4.48.18	18.23	15
16	1.22.11	5.13	3.34.35	13.38	4.49.35	18.27	14
17	1.27.10	5.32	3.38.10	13.52	4.50.49	18.31	13
18	1.32. 8	5.51	3.41.42	14. 5	4.51.58	18.34	12
19	1.37. 4	6.10	3.45. 7	14.18	4.53. 0	18.38	
20	1.41.58	6.29	3.48.30	14.31	4.53.57	18.42	
21	1.46.51	6.47	3.51.52	14.44	4.54.49	18.45	
22	1.51.41	7. 6	3.55. 9	14.57	4.55.36	18.48	
23	1.56.30	7.24	3.58.19	15. 9	4.56.17	18.51	
24	2. 1.17	7.42	4. 1.23	15.21	4.56.52	18.53	
25	2. 6. 1	8. 0	4. 4.24	15.32	4.57.22	18.55	
26	2.10.43	8.18	4. 7.21	15.43	4.57.46	18.56	
27	2.15.23	8.35	4.10.15	15.54	4.58. 5	18.57	
28	2.20. 0	8.53	4.13. 5	16. 5	4.58.18	18.58	
29	2.24.34	9.11	4.15.47	16.15	4.58.26	18.59	
30	2.29. 6	9.28	4.18.26	16.25	4.58.30	19. 0	
	V. B.	XI. A.	B. IV.	X. A	B. III.	IX. A	

T. Med. M. Saturn. in Ann. COLLECTIS.

ANNI	Longitudo. S. °. ′. ″	Anomal. S. °. ′. ″
40	4. 9.23.43	4. 8.30.15
60	0.14. 5.34	0.12.45.22
80	8.18.47.26	8.17. 0.29
100	4.23.39.17	4.21.15.37
200	9.16.58.34	9.12.31.13
300	2.10.27.51	2. 3.46.50
400	7. 3.57. 9	6.25. 2.27
500	11.27.26.26	11.16.18. 3
600	4.20.55.43	4. 7.33.40
700	9.14.25. 0	8.28.49.16
800	2. 7.54.17	1.20. 4.53
900	7. 1.23.34	6.11.20.30
M	11.24.52.52	11. 2.36. 7
2 M	11.19.45.43	10. 5.12.13
3 M	11.14.38.35	9. 7.48.20
4 M	11. 9.31.27	8.10.24.27
5 M	11. 4.24.18	7.13. 0.33
6 M	10.29.17.10	6.15.36.40
7 M	10.24.10. 2	5.18.12.47
8 M	10.19. 2.54	4.20.48.54

T. M. M. Sat. in Mensibus ANNI

COMMUNIS

Menses	*Longit.* °. ′. ″	*Anomal* °. ′. ″
Jan.	1. 2.18	1. 2.11
Feb.	1.58.35	1.58.22
Mar.	3. 0.53	3. 0.33
Apr.	4. 1.11	4. 0.44
Mai.	5. 3.29	5. 2.56
Jun.	6. 3.47	6. 3. 7
Jul.	7. 6. 5	7. 5.17
Aug.	8. 8.23	8. 7.29
Sept.	9. 8.41	9. 7.40
Oct.	10.10.59	10. 9.52
Nov.	11.11.17	11.10. 3
Dec.	12.13.35	12.12.15

BISSEXTILIS.

Mens.	*Longit.* °. ′. ″	*Anomal.* °. ′. ″
Jan.	1. 2.18	1. 2.11
Febr	2. 0.35	2. 0.22
Mar	3. 2.53	3. 2.33
Apr.	4. 3.11	4. 2.44
Mai.	5. 5.29	5. 4.56
Jun.	6. 5.47	6. 5. 7
Jul.	7. 8.15	7. 7.18
Aug.	8.10.23	8. 9.29
Sept.	9.10.41	9. 9.40
Oct.	10.12.59	10.11.52
Nov.	11.13.17	11.12. 3
Dec.	12.15.35	12.14.15

T. Med. m. Sat in Dieb. T. M. m. Sat. in Hor. & m.

Dies	Longit.	Anomal.	hor.	I. II.		
	d. I. II.	o. I. II	I.	II. III	I	II.
1	0. 2. 1	0. 2. 0	1	0. 5	31	3.
2	0. 4. 1	0. 4. 1	2	0. 10	32	3.
3	0. 6. 2	0. 6. 1	3	0. 15	33	3.
4	0. 8. 3	0. 8. 2	4	0. 20	34	3.
5	0.10. 3	0.10. 2	5	0. 25	35	3.
6	0.12. 4	0.12. 3	6	0. 30	36	3.
7	0.14. 4	0.14. 3	7	0. 35	37	3.
8	0.16. 5	0.16. 4	8	0. 40	38	3.
9	0.18. 5	0.18. 4	9	0. 45	39	3.
10	0.20. 6	0.20. 4	10	0. 50	40	3.
11	0.22. 7	0.22. 5	11	0. 55	41	3.
12	0.24. 7	0.24. 5	12	1. 0	42	4.
13	0.26. 8	0.26. 5	13	1. 5	43	4.
14	0.28. 8	0.28. 6	14	1. 10	44	4.
15	0.30. 9	0.30. 6	15	1. 15	45	4.
16	0.32. 9	0.32. 6	16	1. 20	46	4.
17	0.34.10	0.34. 7	17	1. 25	47	4.
18	0.36.10	0.36. 7	18	1. 30	48	4.
19	0.38.11	0.38. 7	19	1. 35	49	4.
20	0.40.12	0.40. 8	20	1. 40	50	4.
21	0.42.12	0.42. 8	21	1. 45	51	4.
22	0.44.13	0.44. 8	22	1. 50	52	4.
23	0.46.13	0.46. 9	23	1. 55	53	4.
24	0.48.14	0.48. 9	24	2. 1	54	5.
25	0.50.14	0.50. 9	25	2. 6	55	5.
26	0.52.15	0.52.10	26	2. 11	56	5.
27	0.54.16	0.54.10	27	2. 16	57	5.
28	0.56.16	0.56.10	28	2. 21	58	5.
29	0.58.17	0.58.11	29	2. 26	59	5.
30	1. 0.18	1. 0.11	30	2. 31	60	5.
31	1. 2.18	1. 2.11	II.	III. IV.	II	III.

Si	0.	I.	II.	III.	IV.	V.	gra
G.	o. ′. ″	o. ′. ″	o. ′. ″	o. ′. ″	o. ′. ″	o. ′. ″	G.
1	0. 6.36	3.15.55	5.38.52	6.38. 0	5.51.30	3.23.33	29
2	0.13.11	3.21.39	5.42.23	6.38.13	5.48. 6	3.17.13	28
3	0.19.46	3.27.20	5.45.48	6.38.17	5.44.34	3.10.49	27
4	0.26.21	3.32.58	5.49. 5	6.38.16	5.40.55	3. 4.21	26
5	0.32.56	3.38.34	5.52.17	6.38. 8	5.37. 9	2.57.49	25
6	0.39.30	3.44. 7	5.55.23	6.37.52	5.33.17	2.51.13	24
7	0.46. 4	3.49.36	5.58.23	6.37.29	5.29.18	2.44.33	23
8	0.52.37	3.55. 0	6. 1.18	6.36.57	5.25.13	2.37.55	22
9	0.59. 9	4. 0.20	6. 4. 6	6.36.19	5.21. 1	2.31. 4	21
10	1. 5.40	4. 5.36	6. 6.47	6.35.33	5.16.43	2.24.14	20
11	1.12.10	4.10.48	6. 9.22	6.34.41	5.12.18	2.17.21	19
12	1.18.39	4.15.57	6.11.51	6.33.41	5. 7.46	2.10.25	18
13	1.25. 7	4.21. 1	6.14.15	6.32.33	5. 3. 8	2. 3.26	17
14	1.31.34	4.26. 1	6.16.32	6.31.18	4.58.24	1.56.25	16
15	1.37.59	4.30.58	6.18.42	6.29.56	4.53.34	1.49.22	15
16	1.44.21	4.35.50	6.20.46	6.28.26	4.48.37	1.42.17	14
17	1.50.42	4.40.36	6.22.42	6.26.49	4.43.35	1.35. 9	13
18	1.57. 2	4.45.18	6.24.32	6.25. 5	4.38.28	1.27.58	12
19	2. 3.20	4.49.55	6.26.15	6.23.13	4.33.14	1.20.44	11
20	2. 9.36	4.54.27	6.27.52	6.21.14	4.27.54	1.13.28	10
21	2.15.50	4.58.55	6.29.22	6.19. 8	4.22.29	1. 6.11	9
22	2.22. 2	5. 3.18	6.30.46	6.16.55	4.16.58	0.58.53	8
23	2.28.12	5. 7.37	6.32. 2	6.14.34	4.11.22	0.51.34	7
24	2.34.19	5.11.50	6.33.11	6.12. 6	4. 5.41	0.44.15	6
25	2.40.24	5.15.58	6.34.14	6. 9.31	3.59.54	0.36.55	5
26	2.46.26	5.20. 0	6.35.10	6. 6.50	3.54. 2	0.29.34	4
27	2.52.26	5.23.57	6.35.58	6. 4. 1	3.48. 5	0.22.11	3
28	2.58.23	5.27.48	6.36.39	6. 1. 3	3.42. 4	0.14.47	2
29	3. 4.17	5.31.35	6.37.13	5.57.58	3.35.58	0. 7.23	1
30	3.10. 8	5.35.17	6.37.41	5.54.47	3.29.48	0. 0. 0	0
	XI.	X.	IX.	VIII.	VII.	VI.	

Tab. Proſt. orbis Annui Saturn. Sign. Sup. A. infer. S.

	0.	I.	II.	III.	IV.	V.	
	o. ′. ″	o. ′. ″	o. ′. ″	o. ′. ″	o. ′. ″	o. ′. ″	G.
1	0. 5.22	2.40. 7	4.41.24	5.38. 0	5. 5.33	3. 0.17	29
2	0.10.44	2.44.53	4.44.29	5.38.27	5. 2.48	2.54.45	28
3	0.16. 5	2.49.37	4.47.30	5.38.48	5. 0. 9	2.49. 5	27
4	0.21.25	2.54.18	4.50.26	5.39. 3	4.57. 9	2.43.29	26
5	0.26.45	2.58.56	4.53.18	5.39.12	4.54.12	2.37.45	25
6	0.32. 5	3. 3.32	4.56. 5	5.39.15	4.51. 5	2.31.57	24
7	0.37.24	3. 8. 5	4.58.48	5.39.11	4.47.47	2.26. 6	23
8	0.42.43	3.12.35	5. 1.27	5.39. 3	4.44.16	2.20.12	22
9	0.48. 1	3.17. 2	5. 4. 1	5.38.46	4.40.41	2.14.14	21
10	0.53.19	3.21.26	5. 6.30	5.38.23	4.37. 3	2. 8.12	20
11	0.58.36	3.25.47	5. 8.53	5.37.54	4.33.22	2. 2. 7	19
12	1. 3.53	3.30. 5	5.11.11	5.37.19	4.29.39	1.55.59	18
13	1. 9. 9	3.34.21	5.13.24	5.36.36	4.25.51	1.49.48	17
14	1.14.25	3.38.34	5.15.32	5.35.46	4.21.56	1.43.35	16
15	1.19.40	3.42.44	5.17.35	5.34.49	4.17.54	1.37.19	15
16	1.24.54	3.46.52	5.19.34	5.33.44	4.13.45	1.31. 1	14
17	1.30. 6	3.50.57	5.21.28	5.32.36	4. 9.29	1.24.41	13
18	1.35.16	3.54.58	5.23.16	5.31.24	4. 5. 6	1.18.19	12
19	1.40.25	3.58.55	5.24.58	5.30. 7	4. 0.36	1.11.54	11
20	1.45.33	4. 2.49	5.26.33	5.28.45	3.55.59	1. 5.27	10
21	1.50.40	4. 6.40	5.28. 3	5.27.15	3.51.17	0.58.59	9
22	1.55.45	4.10.27	5.29.28	5.25.37	3.46.30	0.52.29	8
23	2. 0.48	4.14. 9	5.30.47	5.23.50	3.41.40	0.45.58	7
24	2. 5.48	4.17.46	5.32. 2	5.21.53	3.36.47	0.39.26	6
25	2.10.47	4.21.20	5.33.11	5.19.51	3.31.50	0.32.53	5
26	2.15.45	4.24.50	5.34.14	5.17.44	3.26.47	0.26.20	4
27	2.20.41	4.28.17	5.35.11	5.15.33	3.21.39	0.19.46	3
28	2.25.36	4.31.40	5.36. 2	5.13.17	3.16.25	0.13.11	2
29	2.30.29	4.34.59	5.36.47	5.10.51	3.11. 7	0. 6.36	1
30	2.35.19	4.38.14	5.37.27	5. 8.14	3. 5.44	0. 0. 0	0
	XI.	X.	IX.	VIII.	VII.	VI.	

Tab. Scrupulorum *Proport.* Saturn.

Si G.	0	I.	II.	III.	IV.	V	gn
	/·//	/·//	/·//	/·//	/·//	/·//	
1	0. 0	3. 4	11.48	25.25	41.27	54.53	29
2	0. 1	3.16	12.11	25.56	41.58	55.13	28
3	0. 2	3.28	12.34	26.27	42.29	55.32	27
4	0. 4	3.41	12.58	26.58	43. 0	55.51	26
5	0. 6	3.54	13.22	27.30	43.31	56. 9	25
6	0. 8	4. 8	13.46	28. 2	44. 2	56.26	24
7	0. 10	4.22	14.11	28.34	44.32	56.43	23
8	0. 13	4.36	14.36	29. 6	45. 2	56.59	22
9	0. 16	4.51	15. 1	29.38	45.32	57.15	21
10	0. 20	5. 6	15.27	30.10	46. 2	57.30	20
11	0. 24	5.21	15.53	30.42	46.31	57.45	19
12	0. 29	5.37	16.19	31.14	47. 0	57.59	18
13	0. 34	5.53	16.45	31.46	47.29	58.12	17
14	0. 39	6.10	17.12	32.18	47.57	58.24	16
15	0. 44	6.27	17.39	32.51	48.15	58.36	15
16	0. 50	6.45	18. 6	33.23	48.52	58.47	14
17	0. 56	7. 3	18.33	33.56	49.19	58.57	13
18	1. 3	7.21	19. 1	34.28	49.46	59. 6	12
19	1. 10	7.39	19.29	35. 1	50.13	59.15	11
20	1. 17	7.58	19.58	35.33	50.39	59.23	10
21	1. 25	8.17	20.27	36. 6	51. 4	59.30	9
22	1. 33	8.37	20.56	36.38	51.29	59.36	8
23	1. 42	8.57	21.25	37.10	51.54	59.42	7
24	1. 51	9.17	21.54	37.43	52.18	59.47	6
25	2. 0	9.38	22.24	38.15	52.42	59.51	5
26	2. 9	9.59	22.54	38.47	53. 5	59.55	4
27	2. 19	10.20	23.24	39.19	53.28	59.58	3
28	2. 30	10.41	23.54	39.51	53.50	59.59	2
29	2. 41	11. 3	24.24	40.23	54.11	60. 0	1
30	2. 52	11.2[illegible]	24.54	40.55	54.32	60. 0	0
	XI.	X.	IX.	VIII.	VII.	VI.	

Si	0.	I.	II.	III.	IV.	V.	gna
G.	l. ll	l. ll	l. ll	l. ll	l. ll	l. ll	G.
1	0. 36	17.51	32.31	41.14	39.35	24.34	29
2	1. 12	18.24	32.56	41.22	39.19	23.50	28
3	1. 47	18.57	33.20	41.29	39. 2	23. 6	27
4	2. 22	19.29	33.44	41.36	38.45	22.21	26
5	2. 57	20. 1	34. 7	41.42	88.27	21.36	25
6	3. 32	20.33	34.29	41.48	38. 7	20.50	24
7	4. 7	21. 5	34.51	41.53	37.45	20. 3	23
8	4. 42	21.37	35.13	41.57	37.20	19.15	22
9	5. 18	22. 8	35.35	42. 0	36.55	18.27	21
10	5. 53	22.39	35.57	42. 2	36.30	17.38	20
11	6. 28	23.10	36.18	42. 4	36. 4	16.49	19
12	7. 3	23.41	36.39	42. 5	35.38	15.59	18
13	7. 38	24.12	36.59	42. 4	35.12	15. 9	17
14	8. 13	24.42	37.18	42. 2	34.45	14.18	16
15	8. 48	25.12	37.36	42. 0	34.16	13.27	15
16	9. 23	25.42	37.53	41.58	33.45	12.35	14
17	9. 58	26.12	38.10	41.56	33.14	11.43	13
18	10. 33	26.41	38.27	41.53	32.42	10.50	12
19	11. 8	27.10	38.43	41.49	32.10	9.57	11
20	11. 42	27.39	38.59	41.44	31.37	9. 4	10
21	12. 16	28. 7	39.15	41.38	31. 3	8.10	9
22	12. 50	28.35	39.30	41.30	30.28	7.16	8
23	13. 24	29. 2	39.45	41.21	29.52	6.22	7
24	13. 58	29.29	39.59	41.11	29.16	5.28	6
25	14. 32	29.56	40.12	41. 0	28.39	4.34	5
26	15. 6	30.22	40.24	40.48	28. 1	3.40	4
27	15. 39	30.48	40.35	40.35	27.21	2.45	3
28	16. 12	31.14	40.46	40.21	26.40	1.50	2
29	16. 45	31.40	40.56	40. 6	25.59	0.55	1
30	17. 18	32. 6	41. 5	39.51	25.17	0. 0	0
	XI.	X.	IX.	VII.	VII.	VI.	

Tab. Med. motuum JOVIALIUM
Ad Epoch. Per. Julian. Mundi & Chriſti & Annos
Julianos SINGULOS.

Epoche	Longitudo	Anomalia	Longitudo	Anomalia
	S. o. '. ''	S. o. '. ''	S. o. '. ''	S. o. '. ''
P. J.	11.29.22.21	9.3 19. 7		
M.			2.1. 16.22	10.23.10.44
Chr.			5.29.56.46	0.18. 7.56
1	1. 0.25.31	1.0.24.32	1.0.20.32	1. 0.19.34
2	2. 0.46. 3	2.0.44. 6	2.0.41. 3	2. 0.39. 8
3	3. 1. 6.35	3.1. 3.40	3.1. 1.35	3. 0.58.42
4	4. 1.27. 6	4.1.23.14	4.1.27. 6	4. 1.23.14
5	5. 1.52.37	5.1.47.46	5.1.47.38	5. 1.42.48
6	6. 2.13. 9	6.2. 7.20	6.2. 8.10	6. 2. 2.22
7	7. 2.33.41	7.2.26.54	7.2.28.41	7. 2.21.56
8	8. 2.54.12	8.2.46.29	8.2.54.12	8. 2.46.29
9	9. 3.19.43	9.3.11. 1	9.3.14.44	9. 3. 6. 3
10	10. 3.40.15	10.3.30.35	10.3.35.16	10. 3.25.37
11	11. 4. 0.47	11.3.50. 9	11.3.55.47	11. 3.45.11
12	0. 4.21.18	0.4. 9.44	0.4.21.18	0. 4. 9.44
13	1. 4.46.49	1.4.34.16	1.4.41.50	1. 4.29.18
14	2. 5. 7.21	2.4.53.50	2. 5.2.22	2. 4.48.52
15	3. 5.27.53	3.5.13.24	3.5.22.53	3. 5. 8.26
16	4. 5.48.24	4.5.32.58	4.5.48.24	4. 5.32.58
17	5. 6.13.55	5.5.57.30	5.6. 8.56	5. 5.52.32
18	6. 6.34.27	6.6.17. 4	6.6.29.28	6. 6.12. 6
19	7. 6.54.59	7.6.36.38	7.6.50. 0	7. 6.31.41
20	8. 7.15.31	8.6.56.14	8.7.15.31	8. 6.56.14

T. M. mot. ♃ in Annis COLLECTIS

ANNI	Longitud. S. °. '. ''	Anomal. S. °. '. ''
40	4.14.31. 3	4.13.52.28
60	0.21.46.34	0.20.48.42
80	8.29. 2. 5	8.27.44.56
100	5. 6.17.36	5. 4.41.10
200	10.12.35.13	10. 9.22.19
300	3.18.52.49	3.14. 3.29
400	8.25.10.26	8.18.44.39
500	2. 1.28. 3	1.23.25.48
600	7. 7.45.39	6.28. 6.58
700	0.14. 3.15	0. 2.48. 7
800	5.20.20.52	5. 7.29.17
900	10.26.38.28	10.12.10.27
M	4. 2.56. 5	3.16.51.36
2 M	8. 5.52.10	7. 3.43.13
3 M	0. 8.48.16	10.20.34.49
4 M	4.11.44.21	2. 7.26.26
5 M	8.14.40.26	5.24.18. 2
6 M	0.17.36.31	9.11. 9.38
7 M	4.20.32.36	0.28. 1.14
8 M	8.23.28.41	4.14.52.50

T. M. mot. ♃ in Menſibus Anni

COMMUNIS.

Menſ.	*Longit.* °. '. ''	*Anom.* °. '. ''
Jan.	2.34.37	2.34.32
Febr	4.54.16	4.54. 6
Mar	7.28 53	7.28.38
Apr.	9.58.32	9.58.12
Mai.	12.33. 9	12.32.45
Jun.	15. 2.47	15. 2.18
Jul.	17.37.24	17.36.5
Aug.	20.12. 1	20.11.2
Sept.	22.41.39	22.40.5
Oct.	25.16.17	25.15.2
Nov.	27.45.55	27.45.
Dec	30.20.32	30.19.3

BISSEXTILIS.

Menſ.	*Longit.* °. '. ''	*Anomal.* °. '. ''
Jan	2.34.37	2.34.3
Feb.	4.59.15	4.59.
Mar	7.33.52	7.33.3
Apr.	10. 3.31	10. 3.1
Mai	12.38. 8	12.37.4
Jun.	15. 7.46	15. 7.1
Jul	17.42.23	17.41.4
Aug	20.17. 0	20.16.2
Sept	22.46.38	22.45.5
Oct.	25.21.16	25.20.1
Nov.	27.50.54	27.50.
Dec.	30.25.31	30.24.

T. Med. M. ♃ in Dieb.			T. M. M. ♃ in Hor. & min.			
Dies	Longit.	Anomal.	Hor.	' ''		
	° ' ''	° ' ''	'	'' '''	'	''
1	0. 4.59	0. 4.59	1	0. 12	31	6
2	0. 9.58	0. 9.58	2	0. 25	32	7
3	0.14.57	0.14.57	3	0. 37	33	7
4	0.19.57	0.19.57	4	0. 50	34	7
5	0.24.56	0.24.56	5	1. 2	35	7
6	0.29.55	0.29.55	6	1. 15	36	7
7	0.34.54	0.34.54	7	1. 27	37	8
8	0.39.54	0.39.53	8	1. 40	38	8
9	0.44.53	0.44.52	9	1. 52	39	8
10	0.49.52	0.49.51	10	2. 5	40	8
11	0.54.51	0.54.50	11	2. 17	41	9
12	0.59.51	0.59.50	12	2. 30	42	9
13	1. 4.50	1. 4.49	13	2. 42	43	9
14	1. 9.49	1. 9.48	14	2. 54	44	9
15	1.14.49	1.14.47	15	3. 7	45	9
16	1.19.48	1.19.46	16	3. 19	46	10
17	1.24.47	1.24.45	17	3. 32	47	10
18	1.29.46	1.29.44	18	3. 44	48	10
19	1.34.46	1.34.43	19	3. 57	49	10
20	1.39.45	1.39.42	20	4. 9	50	10
21	1.44.44	1.44.41	21	4. 22	51	11
22	1.49.43	1.49.40	22	4. 34	52	11
23	1.54.43	1.54.39	23	4. 47	53	11
24	1.59.42	1.59.38	24	4. 59	54	11
25	2. 4.41	2. 4.37	25	5. 12	55	11
26	2. 9.40	2. 9.36	26	5. 24	56	12
27	2.14.39	2.14.35	27	5. 37	57	12
28	2.19.39	2.19.35	28	5. 49	58	12
29	2.24.38	2.24.34	29	6. 1	59	12
30	2.29.38	2.29.33	30	6. 14	60	12
31	2.34.37	2.34.32	' '	'''. iv	''	'''

Si	0.	I.	II.	III.	IV.	V.	gra
G.	o. ′. ″	o. ′. ″	o. ′. ″	o. ′. ″	o. ′. ″	o. ′. ″	Gr
1	0. 5.28	2.42.17	4.39.47	5.26.55	4.47. 1	2.45.27	29
2	0.10.56	2.47. 2	4.42.37	5.26.58	4.44.11	2.40.11	28
3	0.16.24	2.51.44	4.45.23	5.26.59	4.41.14	2.34.58	27
4	0.21.51	2.56.22	4.48. 3	5.26.59	4.38.12	2.29.43	26
5	0.27.18	3. 0.58	4.50.39	5.26.56	4.35. 5	2.24.26	25
6	0.32.44	3. 5.31	4.53.11	5.26.40	4.31.52	2.19. 7	24
7	0.38.10	3.10. 2	4.55.37	5.26.14	4.28.34	2.13.43	23
8	0.43.36	3.14.30	4.57.58	5.25.38	4.25.10	2. 8.14	22
9	0.49. 1	3.18.55	5. 0.14	5.24.59	4.21.41	2. 2.40	21
10	0.54.26	3.23.16	5. 2.25	5.24.16	4.18. 7	1.57. 3	20
11	0.59.49	3.27.33	5. 4.31	5.23.30	4.14.29	1.51.25	19
12	1. 5.12	3.31.46	5. 6.31	5.22.40	4.10.46	1.45.46	18
13	1.10.33	3.35.56	5. 8.26	5.21.44	4. 6.58	1.40. 6	17
14	1.15.53	3.40. 3	5.40.16	5.20.40	4. 3. 4	1.34.26	16
15	1.21.12	3.44. 6	5.12. 0	5.19.27	3.59. 5	1.28.44	15
16	1.26.30	3.48. 6	5.13.38	5.18. 7	3.55. 0	1.23. 0	14
17	1.31.46	3.52. 2	5.15.11	5.16.42	3.50.51	1.17.14	13
18	1.37. 1	3.55.54	5.16.38	5.15.12	3.46.37	1.11.26	12
19	1.42.14	3.59.42	5.18. 0	5.13.38	3.42.20	1. 5.35	11
20	1.47.25	4. [illegible]26	5.19.16	5.11.59	3.37.59	0.59.41	10
21	1.52.35	4. 7. 6	5.20.27	5.10.14	3.33.33	0.53.45	9
22	1.57.43	4.10.42	5.21.32	5. 8.21	3.29. 2	0.47.49	8
23	2. 2.49	4.14.13	5.22.31	5. 6.27	3.24.26	0.41.52	7
24	2. 7.52	4.17.40	5.23.24	5. 4.15	3.19.46	0.35.55	6
25	2.12.53	4.21. 2	5.24.12	5. 2. 4	3.15. 2	0.29.57	5
26	2.17.52	4.24.20	5.24.54	4.59.48	3.10.14	0.23.59	4
27	2.22.49	4.27.34	5.25.30	4.57.26	3. 5.22	0.18. 0	3
28	2.27.44	4.30.44	5.26. 0	4.54.58	3. 0.27	0.12. 1	2
29	2.32.37	4.33.50	5.26.25	4.52.24	2.55.29	0. 6. 1	1
30	2.37.29	4.36.51	5.26.44	4.49.45	2.50.27	0. 0. 0	0
S.	XI.	X.	IX.	VIII.	VII.	VI.	

Gr.	0. Proſt.	0. Sc. Pr.	I. Proſt.	I. Sc. Pr.	II. Proſt.	II. Sc. Pr.	Gr.
	o. l. ll	l. ll	o. l. ll	l. ll	o. l. ll	l. ll	
1	0. 9.22	0. 1	4.42.13	3. 18	8.26.41	12.28	29
2	0.18.44	0. 2	4.50.46	3. 31	8.32.44	12.52	28
3	0.28. 6	0. 3	4.59.16	3. 44	8.38.40	13.16	27
4	0.37.28	0. 4	5. 7.44	3. 58	8.44.29	13.41	26
5	0.46.49	0. 6	5.16. 9	4. 12	8.50.12	14. 6	25
6	0.56.10	0. 8	5.24.30	4. 27	8.55.47	14.31	24
7	1. 5.31	0.11	5.32.46	4. 42	9. 1.15	14.57	23
8	1.14.51	0.14	5.40.57	4. 57	9. 6.36	15.23	22
9	1.24.10	0.18	5.49. 3	5. 12	9.11.49	15.49	21
10	1.33.28	0.22	5.57. 4	5. 28	9.16.54	16.15	20
11	1.42.45	0.26	6. 5. 1	5. 44	9.21.50	16.42	19
12	1.52. 0	0.30	6.12.53	6. 1	9.26.37	17. 9	18
13	2. 1.14	0.35	6.20.40	6. 18	9.31.17	17.36	17
14	2.10.27	0.41	6.28.21	6. 36	9.35.50	18. 3	16
15	2.19.39	0.47	6.35.59	6. 54	9.40.15	18.31	15
16	2.28.50	0.53	6.43.35	7. 12	9.44.33	18.59	14
17	2.37.59	1. 0	6.51. 9	7. 31	9.48.41	19.27	13
18	2.47. 6	1. 7	6.58.37	7. 50	9.52.39	19.56	12
19	2.56.11	1.15	7. 5.59	8. 9	9.[illegible].26	20.25	11
20	3. 5.14	1.23	7.13.14	8. 28	10. 0. 1	20.54	10
21	3.14.15	1.32	7.20.23	8. 48	10. 3.29	21.23	9
22	3.23.14	1.41	7.27.25	9. 9	10. 6.51	21.52	8
23	3.32.11	1.50	7.34.23	9. 30	10.10. 7	22.22	7
24	3.41. 6	2. 0	7.41.16	9. 51	10.13.17	22.52	6
25	3.49.58	2.10	7.48. 4	10. 13	10.16.15	23.22	5
26	3.58.48	2.20	7.54.46	10. 35	10.19. 1	23.52	4
27	4. 7.35	2.31	8. 1.21	10. 57	10.21.33	24.22	3
28	4.16.19	2.42	8. 7.50	11. 19	10.23.50	24.53	2
29	4.25. 0	2.54	8.14.13	11. 42	10.25.58	25.24	1
30	4.33.38	3. 6	8.20.30	12. 5	10.28. 0	25.55	0
	XI.		X.		IX.		

G.	III. Proſt. o. I. II	III. Scr. Pr. I. II	IV. Proſt. o. I. II	IV. Scrup. I. II	V. Proſt. o. I. II	V. Sc. Prop. I. II
1	10.29.56	26.26	9.54.50	42.17	6. 4.54	55.13
2	10.31.38	26.57	9.50.22	42.48	5.54. 4	55.32
3	10.33. 8	27.28	9.45.40	43.18	5.43. 5	55.50
4	10.34.27	27.59	9.40.44	43.48	5.31.55	56. 8
5	10.35.35	28.30	9.35.35	44.18	5.20.34	56.25
6	10.36.33	29. 2	9.30.13	44.48	5. 9. 4	56.42
7	10.37.21	29.34	9.24.37	45.18	4.57.26	56.58
8	10.37.57	30. 6	9.18.47	45.47	4.45.39	57.13
9	10.38.22	30.38	9.12.44	46.16	4.33.42	57.28
10	10.38.33	31.10	9. 6.27	46.44	4.21.34	57.42
11	10.38.33	31.42	8.59.57	47.12	4. 9.20	57.56
12	10.38.21	32.14	8.53.14	47.40	3.57. 0	58. 9
13	10.37.57	32.46	8.46.17	48. 8	3.44.33	58.21
14	10.37.21	33.19	8.39. 7	48.35	3.31.59	58.32
15	10.36.33	33.51	8.31.43	49. 2	3.19.18	58.42
16	10.35.32	34.23	8.24. 7	49.29	3. 6.30	58.52
17	10.34.20	34.55	8.16.18	49.55	2.53.35	59. 1
18	10.32.55	35.27	8. 8.15	50.21	2.40.34	59.10
19	10.31.17	35.59	7.59.59	50.46	2.27.29	59.18
20	10.29.27	36.31	7.51.30	51.11	2.14.19	59.26
21	10.27.23	37. 3	7.42.50	51.35	2. 1. 5	59.33
22	10.25. 7	37.35	7.33.56	51.59	1.47.48	59.40
23	10.22.38	38. 7	7.24.50	52.22	1.34.28	59.46
24	10.19.56	38.39	7.15.31	52.45	1.21. 5	59.51
25	10.17. 1	39.11	7. 6. 1	53. 8	1. 7.38	59.55
26	10.13.52	39.42	6.56.18	53.30	0.54. 8	59.58
27	10.10.31	40.13	6.46.24	53.52	0.40.37	60. 0
28	10. 6.56	40.44	6.36.18	54.13	0.27. 5	60. 0
29	10. 3. 8	41.15	6.26. 1	54.34	0.13.33	60. 0
30	9.59. 5	41.46	6.15.33	54.54	0. 0. 0	60. 0
	VIII.		VII		VI.	

Tab. Exceſſuum pro Jove.

Si	0.	I.	II.	III.	IV.	V.	gna
G.	′.″	′.″	°.′.″	′.″	°.′.″	′.″	G.
1	0.46	23.26	44.27	1. 0.17	1. 3.22	42.52	29
2	1.32	24.11	45. 6	1. 0.39	1. 3. 7	41.42	28
3	2 17	24.55	45.44	1. 1. 0	1. 2.50	40.30	27
4	3. 2	25.39	46.22	1. 1.20	1. 2.31	39.16	26
5	3.48	26.23	46.59	1. 1.39	1. 2.11	38. 1	25
6	4.34	27. 7	47.36	1. 1.57	1. 1.49	36.44	24
7	5.20	27.51	48.13	1. 2.14	1. 1.26	35.26	23
8	6. 6	28.35	48.49	1. 2.30	1. 1. 2	34. 6	22
9	6.52	29.19	49.24	1. 2.45	1. 0.36	32.45	21
10	7.38	30. 2	49.59	1. 3. 0	1. 0. 8	31.22	20
11	8.24	30.45	50.34	1. 3.14	0.59.38	29.58	19
12	9.10	31.28	51. 8	1. 3.27	0.59. 5	28.32	18
13	9.56	32.11	51.42	1. 3.39	0.58.31	27. 4	17
14	10.41	32.54	52.16	1. 3.49	0.57.55	25.35	16
15	11.26	33.36	52.49	1. 3.58	0.57.17	24. 5	15
16	12.12	34.18	53.22	1. 4. 7	0.56.37	22.34	14
17	12.58	35. 0	53.54	1. 4.15	0.55.55	21. 2	13
18	13.43	35.42	54.26	1. 4.22	0.55.12	19.29	12
19	14.28	36.24	54.57	1. 4.27	0.54.27	17.55	11
20	15.13	37. 5	55.27	1. 4.29	0.53.40	16.20	10
21	15.58	37.46	55.57	1. 4.29	0.52.51	14.44	9
22	16.43	38.27	56.26	1. 4.28	0.51.59	13. 8	8
23	17.28	39. 8	56.54	1. 4.26	0.51. 5	11.31	7
24	18.13	39.49	57.22	1. 4.23	0.50. 9	9.54	6
25	18.58	40.29	57.49	1. 4.19	0.49.12	8.16	5
26	19.43	41. 9	58.15	1. 4.14	0.48.13	6.38	4
27	20.28	41.49	58.41	1. 4. 7	0.47.12	4.59	3
28	21.13	42.29	59. 6	1. 3.58	0.46. 9	3.20	2
29	21.58	43. 9	59.30	1. 3.47	0.45. 5	1.40	1
30	22.42	43.48	59.54	1. 3.35	0.44. 0	0. 0	0
	XI.	X.	IX.	VIII.	VII.	VI.	

Tab. Mediorum. Motuum ♂ Ad Epoch. Per Julian. Mundi Christi & Annos Julianos SINGULOS.

Epoche	Longitudo	Anomalia	Longitudo	Anomalia
	S. o. /. //	S. o. /. //	S. o. /. //	S. o. /. //
J	1.20.11.11	1. 2.47.48		
M.			4.22. 1.56	3.19. 3.32
Chr.			1. 9.39.14	9.14.13.57
1	6.11.48.36	6.11.47.21	6.11.17.10	6.11.15.55
2	0.23.15.46	0.23. 3.16	0.22.34.20	0.22.31.50
3	7. 4.22.56	7. 4.10.11	7. 3.51.30	7. 3.47.46
4	1.15.40. 7	1.15.35. 7	1.15.40. 7	1.15.35. 7
5	7.27.28.43	7.27.22.28	7.26.57.17	1.26.51. 3
6	2. 8.45.53	2. 8.38.23	2. 8.14.27	2. 8. 6.58
7	8.20. 3. 3	8.19.54.18	8.19.31.37	8.19.22.53
8	3. 1.20.14	3. 1.10.15	3. 1.20.14	4. 1.10.15
9	9.13. 8.50	9.12.57.36	9.12.37.24	9.12.26.10
10	3.24.26. 0	3.24.13.31	3.23.54.34	3.23.42. 5
11	10. 5.43.10	10. 5.29.26	10. 5.11.44	10. 4.58. 1
12	4.17. 0.21	4.16.45.22	4.17. 0.21	4.16.45.22
13	10.28.48.57	10.28.32.43	10.28.17.31	10.28. 1.18
14	5.10. 6. 7	5. 9.48.38	5. 9.34.41	5. 9.17.13
15	11.21.23.17	11.21. 4.33	11.20.51.51	11.20.33. 8
16	6. 2.40.28	6. 2.20.30	6. 2.40.28	6. 2.20.30
17	0.14.29. 4	0.14. 7.51	0.13.57.38	0.13.36.25
18	6.25.46.14	6.25.23.46	6.25.14.48	6.24.52.20
19	1. 7. 3.24	1. 6.39.41	1. 6.31.58	1. 6. 8.16
20	7.18.20.25	7.17.55.38	7.18.20.35	7.17.55.38

ANNI	T. Med. M. ♂ in ANNIS COLLECTIS. Longitudo	Anomal.
	S. o. ′ ″	S. o. ′ ″
40	3. 6.41.11	3. 5.51.16
60	10.25. 1.46	10.23.46.54
80	6.13.22.22	6.11.42.32
100	2. 1.42.58	1.29.38.10
200	4. 3.25.55	3.29.16.20
300	6. 5. 8.53	5.28.54.30
400	8. 6.51.50	7.28.32.40
500	10. 8.34.48	9.28.10.50
600	0.10.17.45	11.27.49. 0
700	2.12. 0.43	1.27.27. 9
800	4.13.43.41	3.27. 5.19
900	6.15.26.38	5.26.43.29
M	8.17. 9.36	7.26.21.39
2 M	5. 4.19.11	3.22.43.18
3 M	1.21.28.47	11.19. 4.58
4 M	10. 8.38.23	7.15.26.37
5 M	6.25.47.58	3.11.48.16
6 M	3.12.57.34	11. 8. 9.56
7 M	0. 0. 7.10	7. 4.31.35
8 M	8.17.16.46	3. 0.53.14

T. Med. M. ♂ in Menſibus ANNI

COMMUNIS

Menſes	*Longitudo*	*Anomal.*
	S. o. ′ ″	S. o. ′ ″
Jan.	0.16.14.46	0.16.14.40
Feb.	1. 0.55.12	1. 0.55. 0
Mar	1.17. 9.58	1.17. 9.40
Apr.	2. 2.53.18	2. 2.52.54
Mai.	2.19. 8. 5	2.19. 7.34
Jun	3. 4.51.25	3. 4.50.48
Jul.	3.21. 6.11	3.21. 5.27
Aug	4. 7.20.57	4. 7.20. 7
Sept	4.23. 4.17	4.23. 3.21
Oct.	5. 9.19. 4	5. 9.18. 1
Nov	5.25. 2.24	5.25. 1.15
Dec.	6.11.17.10	6.11.15.55

BISSEXTILIS.

Mēſ.	*Longitudo*	*Anomal.*
	S. o. ′ ″	S. o. ′ ″
Jan	0.16.14.46	0.16.14.40
Febr	1. 1.26.39	1. 1.26.27
Mar	1.17.41.25	1.17.41. 7
Apr.	2. 3.24.45	2. 3.24.21
Mai	2.19.39.32	2.19.39. 1
Jun.	3. 5.22.51	3. 5.22.14
Jul	3.21.37.37	3.21.36.53
Aug	4. 7.52.23	4. 7.51.33
Sep	4.23.35.43	4.23.34.47
Oct	5. 9.50.30	5. 9.49.27
Nov.	5.25.33.50	5.25.32.41
Dec.	6.11.48.36	6.11.47.21

T. Med. m. ♂ in DIEB. | M. m. ♂ in Hor. & min.

Dies	Longit.	Anomal.	hor.	'. ''		
	°.'.''	°.'.''	'	'.'''	'	'.''
1	0.31.27	0.31.27	1	1. 19	31	0. 41
2	1. 2.53	1. 2.53	2	2. 37	32	0. 42
3	1.34.20	1.34.20	3	3. 56	33	0. 43
4	2. 5.46	2. 5.46	4	5. 14	34	0. 45
5	2.37.13	2.37.12	5	6. 33	35	0. 46
6	3. 8.39	3. 8.38	6	7. 52	36	0. 47
7	3.40. 6	3.40.15	7	9. 10	37	0. 48
8	4.11.33	4.11.32	8	10. 29	38	0. 50
9	4.43. 0	4.42.59	9	11. 47	39	0. 51
10	5.14.26	5.14.25	10	13. 6	40	0. 52
11	5.45.53	5.45.51	11	14. 25	41	0. 54
12	6.17.19	6.17.17	12	15. 43	42	0. 55
13	6.48.46	6.48.44	13	17. 2	43	0. 56
14	7.20.12	7.20.10	14	18. 20	44	0. 58
15	7.51.39	7.51.36	15	19. 39	45	0. 59
16	8.23. 6	8.23. 3	16	20. 58	46	1. 0
17	8.54.33	8.54.30	17	22. 16	47	1. 2
18	9.25.59	9.25.56	18	23. 35	48	1. 3
19	9.57.26	9.57.23	19	24. 53	49	1. 4
20	10.28.52	10.28.49	20	26. 12	50	1. 5
21	11. 0.19	11. 0.15	21	27. 31	51	1. 7
22	11.31.46	11.31.42	22	28. 49	52	1. 8
23	12. 3.13	12. 3. 9	23	30. 8	53	1. 9
24	12.34.39	12.34.35	24	31. 27	54	1. 11
25	13. 6. 6	13. 6. 1	25	32. 45	55	1. 12
26	13.37.32	13.37.27	26	34. 4	56	1. 13
27	14. 8.59	14. 8.54	27	35. 22	57	1. 15
28	14.40.25	14.40.20	28	36. 41	58	1. 16
29	15.11.52	15.11.47	29	38. 0	59	1. 17
30	15.43.19	15.43.13	30	39. 18	60	1. 19
31	16.14.46	16.14.40	' ''	'''.IV	'' '''	''.'''

T. Proſtaph. Eccentr. MARTIS Signi Sup. S. inf. Add.

Si	0.	I.	II.	III.	IV.	V	gra
G.	o. '. ''	o. '. ''	o. '. ''	o. '. ''	o. '. ''	o. '. ''	Gr
1	0.10. 1	4.59.11	8.45.18	10.31.55	9.33.32	5.41.18	29
2	0.20. 2	5. 8.11	8.51. 5	10.32.31	9.28.42	5.30.57	28
3	0.30. 2	5.17. 5	8.56.43	10.33.19	9.23.38	5.20.27	27
4	0.40. 2	5.25.53	9. 2.11	10.33.58	9.18.21	5. 9.48	26
5	0.50. 1	5.34.35	9. 7.29	10.34.20	9.12.49	4.59. 0	25
6	1. 0. 0	5.43.11	9.12.36	10.34.30	9. 7. 3	4.48. 5	24
7	1. 9.59	5.51.41	9.17.35	10.34.15	9. 1. 5	4.37. 3	23
8	1.19.58	6. 0. 5	9.22.26	10.34. 4	8.54.54	4.25.54	22
9	1.29.56	6. 8.23	9.27.10	10.33.45	8.48.32	4.14.38	21
10	1.39.52	6.16.36	9.31.45	10.33.18	8.42. 0	4. 3.16	20
11	1.49.46	6.24.43	9.36.12	10.32.47	8.35.15	3.51.48	19
12	1.59.37	6.32.44	9.40.32	10.32. 5	8.28.18	3.40.14	18
13	2. 9.25	6.40.39	9.44.44	10.31. 9	8.21. 9	3.28.34	17
14	2.19.11	6.48.27	9.48.48	10.29.55	8.13.47	3.16.48	16
15	2.28.55	6.56.10	9.52.45	10.28.22	8. 6.12	3. 4.55	15
16	2.38.37	7. 3.47	9.56.33	10.26.31	7.58.25	2.52.56	14
17	2.48.16	7.11.17	10. 0.10	10.24.22	7.50.27	2.40.51	13
18	2.57.52	7.18.40	10. 3.36	10.21.55	7.42.27	2.28.40	12
19	3. 7.25	7.25.57	10. 6.50	10.19.10	7.33.57	2.16.27	11
20	3.16.55	7.33. 8	10. 9.52	10.16. 6	7.25.27	2. 4.12	10
21	3.26.22	7.40.13	10.12.44	10.12.55	7.16.47	1.51.55	9
22	3.35.48	7.47.12	10.15.26	10. 9.37	7. 7.57	1.39.36	8
23	3.45.12	7.54. 5	10.17.58	10. 6.11	6.58.57	1.27.14	7
24	4.54.35	8. 0.52	10.20.20	10. 2.36	6.49.47	1.14.50	6
25	4. 3.56	8. 7.33	10.22.31	9.58.52	6.40.27	1. 2.25	5
26	4.13.15	8.14. 8	10.24.31	9.55. 0	6.30.58	0.49.58	4
27	4.22.31	8.20.37	10.26.20	9.51. 0	6.21.20	0.37.30	3
28	4.31.45	8.27. 0	10.27.57	9.46.52	6.11.32	0.25. 1	2
29	4.40.57	8.33.15	10.29.21	9.42.35	6. 1.35	0.12.31	1
30	4.50. 7	8.39.21	10.30.32	9.38. 9	6.51.30	0. 0. 0	0
S	XI.	X.	IX.	VIII.	VII.	VI.	gr

Tabul. Diſtantiarum MARTIALIUM a Centro

Si-	0.	I.	II.	III.	IV.	V.	gna
G.	Part.	Part.	Part.	Part.	Part.	Part.	
1	111129	109948	106633	101514	95612	90714	29
2	1126	9878	6489	101322	95412	90594	28
3	1119	9804	6343	101129	95214	90478	27
4	1108	9727	6194	100935	95019	90366	26
5	1091	9646	6043	100741	94827	90258	25
6	1072	9561	5890	100546	94640	9015[illegible]	24
7	1052	9472	5735	100351	94457	90050	23
8	1031	9380	5578	100156	94278	8995[illegible]	22
9	1009	9286	5419	99961	94103	89854	21
10	0986	9190	5258	99766	93932	89763	20
11	0963	9093	5096	99571	93762	89677	19
12	0939	8993	4933	99376	93593	89595	18
13	0914	8890	4768	99181	93424	89517	17
14	0888	8785	4601	98986	93256	89443	16
15	0860	8678	4433	98791	93088	89374	15
16	0824	8567	4263	98596	92921	89310	14
17	0781	8453	4091	98401	92755	89251	13
18	0732	8336	3918	98206	92590	89197	12
19	0678	8217	3743	98012	92426	89146	11
20	0621	8096	3567	97816	92263	89099	10
21	0563	7973	3389	97620	92103	89055	9
22	0504	7848	3209	97423	91947	89015	8
23	0445	7720	3027	97225	91795	88979	7
24	0385	7590	2843	97027	91647	88948	6
25	0324	7459	2657	96828	91503	88922	5
26	0263	7326	2469	96627	91363	88901	4
27	0201	7191	2279	96425	91226	88886	3
28	0139	7054	2089	96222	91093	88877	2
29	0076	6915	1898	96018	90963	88872	1
30	0013	6775	1706	95814	90837	88870	[illegible]
	XI.	X.	IX.	VIII.	VII.	VI.	

Tab. Diſtantiarum ☉ & Mart.

Sexa- *Gra-*	0. Part.	I. Part.	II. Part.	*gena-* *dus*
2	23493	17266	5523	58
4	23471	16900	5179	56
6	23436	16529	4843	54
8	23386	16152	4515	52
10	23321	15770	4197	50
12	23244	15381	3888	48
14	23151	14989	3588	46
16	23045	14593	3298	44
18	22925	14193	3018	42
20	22791	13790	2748	40
22	22643	13386	2490	38
24	22484	12979	2244	36
26	22311	12570	2009	34
28	22125	12160	1784	32
30	21927	11750	1573	30
32	21716	11340	1375	28
34	21491	10930	1189	26
36	21256	10521	1016	24
38	21010	10114	857	22
40	20752	9710	709	20
42	20482	9307	575	18
44	20202	8907	455	16
46	19912	8511	349	14
48	1961[illegible]	8119	256	12
50	19303	7730	179	10
52	18985	7348	114	8
54	18657	6971	64	6
56	18321	6600	29	4
58	17977	6234	7	2
60	17625	5875	0	0
Sexa	V.	IV.	III.	*gena*

T.M. mot. ♃ in Annis COLLECTIS		
ANNI	Longitud. S. o. ′. ″	Anomal. S. o. ′. ″
40	4.14.31. 3	4.13.52.28
60	0.21.46.34	0.20.48.42
80	8.29. 2. 5	8.27.44.56
100	5. 6.17.36	5. 4.41.10
200	10.12.35.13	10. 9.22.19
300	3.18.52.49	3.14. 3.29
400	8.25.10.26	8.18.44.39
500	2. 1.28. 3	1.23.25.48
600	7. 7.45.39	6.28. 6.58
700	0.14. 3.15	0. 2.48. 7
800	5.20.20.52	5. 7.29.17
900	10.26.38.28	10.12.10.27
M	4. 2.56. 5	3.16.51.36
2 M	8. 5.52.10	7. 3.43.13
3 M	0. 8.48.16	10.20.34.49
4 M	4.11.44.21	2. 7.26.26
5 M	8.14.40.26	5.24.18. 2
6 M	0.17.36.31	9.11. 9.38
7 M	4.20.32.36	0.28. 1.14
8 M	8.23.28.41	4.14.52.50

T. M. mot. ♃ in Menſibus Anni

COMMUNIS.

Menſ.	*Longit* o. ′. ″	*Anom.* o. ′. ″
Jan.	2.34.37	2.34.32
Febr	4.54.16	4.54. 6
Mar	7.28 53	7.28.38
Apr.	9.58.32	9.58.12
Mai.	12.33. 9	12.32.45
Jun.	15. 2.47	15. 2.18
Jul.	17.37.24	17.36.50
Aug.	20.12. 1	20.11.22
Sept.	22.41.39	22.40.55
Oct.	25.16.17	25.15.28
Nov.	27.45.55	27.45. 2
Dec	30.20.32	30.19.34

BISSEXTILIS.

Menſ.	*Longit.* o. ′. ″	*Anomal.* o. ′. ″
Jan	2.34.37	2.34.3
Feb.	4.59.15	4.59.
Mar	7.33.52	7.33.3
Apr	10. 3.31	10. 3.1
Mai	12.38. 8	12.37.4
Jun.	15. 7.46	15. 7.1
Jul	17.42.23	17.41.4
Aug	20.17. 0	20.16.2
Sept	22.46.38	22.45.5
Oct.	25.21.16	25.20.2
Nov.	27.50.54	27.50.
Dec.	30.25.31	30.24.3

ign. 0

Gradus	Scrup. Prop.	Lat. Borea Sat.	Lat. Borea Jovis	Lat. Borea Mart.	Lat. Auſtrina Sat.	Lat. Auſtrina Jovis	Lat. Auſtrina Mart.	Priora
	l. ll	o. l.	o. l.	o. l.	o. l.	o. l.	o. l.	G.
1	1. 3	2.17	1. 7	1. 9	2.16	1. 6	1. 4	29
2	2. 5	2.17	1. 7	1. 9	2.16	1. 6	1. 4	28
3	3. 8	2.17	1. 7	1. 9	2.16	1. 6	1. 4	27
4	4.10	2.17	1. 7	1. 9	2.16	1. 6	1. 4	26
5	5.12	2.17	1. 7	1. 9	2.16	1. 6	1. 4	25
6	6.14	2.17	1. 7	1. 9	2.16	1. 6	1. 5	24
7	7.16	2.17	1. 7	1. 9	2.16	1. 6	1. 5	23
8	8.18	2.17	1. 7	1. 9	2.16	1. 6	1. 5	22
9	9.21	2.17	1. 7	1. 9	2.16	1. 7	1. 5	21
10	10.23	2.17	1. 7	1. 9	2.16	1. 7	1. 5	20
11	11.25	2.17	1. 7	1. 9	2.16	1. 7	1. 5	19
12	12.26	2.17	1. 7	1. 9	2.16	1. 7	1. 6	18
13	13.27	2.17	1. 7	1.10	2.16	1. 7	1. 6	17
14	14.28	2.17	1. 7	1.10	2.16	1. 7	1. 6	16
15	15.28	2.17	1. 8	1.10	2.16	1. 7	1. 6	15
16	16.29	2.17	1. 8	1.10	2.16	1. 7	1. 7	14
17	17.29	2.17	1. 8	1.10	2.16	1. 7	1. 7	13
18	18.29	2.18	1. 8	1.10	2.17	1. 7	1. 7	12
19	19.30	2.18	1. 8	1.10	2.17	1. 7	1. 7	11
20	20.30	2.18	1. 8	1.10	2.17	1. 7	1. 7	10
21	21.29	2.18	1. 8	1.10	2.17	1. 7	1. 8	9
22	22.28	2.18	1. 8	1.11	2.17	1. 7	1. 8	8
23	23.26	2.18	1. 8	1.11	2.17	1. 7	1. 8	7
24	24.24	2.18	1. 8	1.11	2.17	1. 7	1. 8	6
25	25.22	2.18	1. 8	1.11	2.17	1. 7	1. 9	5
26	26.20	2.18	1. 8	1.11	2.17	1. 7	1. 9	4
27	27.18	2.18	1. 8	1.11	2.17	1. 7	1. 9	3
28	28.16	2.18	1. 9	1.12	2.18	1. 7	1. 9	2
29	29.14	2.18	1. 9	1.12	2.18	1. 8	1.10	1
30	30.11	2.18	1. 9	1.12	2.18	1. 8	1.10	0

aſter. XI S.

T. Scrup. proport. ac Latit. pro Saturn. Jov. Mart.

Sign	I						
Gradus	Scrup. Prop.	Lat. Borea			Lat. Auſtrina			
		Sat.	Jobis	Mart	Sat.	Jobis	Mart	
	′ ″	o. ′	o. ′	o. ′	o. ′	o. ′	o. ′	G.
1	31. 5	2.18	1. 9	1.12	2.18	1. 8	1.10	29
2	31.58	2.18	1. 9	1.12	2.18	1. 8	1.10	28
3	32.50	2.18	1. 9	1.12	2.18	1. 8	1.10	27
4	33.41	2.19	1. 9	1.12	2.18	1. 8	1.11	26
5	34.31	2.19	1. 9	1.12	2.19	1. 8	1.11	25
6	35.21	2.19	1. 9	1.13	2.19	1. 8	1.11	24
7	36.10	2.19	1.10	1.13	2.19	1. 8	1.11	23
8	36.58	2.19	1.10	1.13	2.19	1. 8	1.12	22
9	37.46	2.19	1.10	1.13	2.19	1. 9	1.12	21
10	38.33	2.19	1.10	1.13	2.19	1. 9	1.12	20
11	39.20	2.20	1.10	1.14	2.19	1. 9	1.12	19
12	40. 6	2.20	1.10	1.14	2.20	1. 9	1.12	18
13	40.52	2.20	1.10	1.14	2.20	1. 9	1.13	17
14	41.37	2.20	1.10	1.14	2.20	1. 9	1.13	16
15	42.22	2.21	1.10	1.15	2.20	1. 9	1.13	15
16	43. 6	2.21	1.11	1.15	2.20	1. 9	1.13	14
17	43.49	2.21	1.11	1.15	2.21	1. 9	1.14	13
18	44.33	2.21	1.11	1.15	2.21	1. 9	1.14	12
19	45.16	2.21	1.11	1.16	2.21	1.10	1.14	11
20	45.58	2.21	1.11	1.16	2.21	1.10	1.14	10
21	46.39	2.21	1.11	1.16	2.21	1.10	1.15	9
22	47.19	2.21	1.11	1.16	2.22	1.10	1.15	8
23	47.57	2.21	1.11	1.17	2.22	1.10	1.15	7
24	48.34	2.22	1.11	1.17	2.22	1.10	1.15	6
25	49. 9	2.22	1.12	1.17	2.22	1.10	1.16	5
26	49.43	2.22	1.12	1.17	2.22	1.10	1.16	4
27	50.16	2.22	1.12	1.18	2.23	1.10	1.16	3
28	50.48	2.22	1.12	1.18	2.23	1.11	1.16	2
29	51.19	2.23	1.12	1.18	2.23	1.11	1.17	1
30	51.49	2.23	1.12	1.19	2.23	1.11	1.17	0
Signa	X							

ign.	II							
	Scrup.	Lat. Borea			Lat. Auſtrina			
	Prop.	Sat.	Jovis	Mart.	Sat.	Jovis	Mart.	
	′. ″	o. ′	o. ′	o. ′	o. ′	o. ′	o. ′	G.
1	52.19	2.23	1.13	1.19	2.23	1.11	1.17	29
2	52.48	2.23	1.13	1.19	2.24	1 11	1.18	28
3	53.16	2.23	1.13	1.20	2.24	1.12	1.18	27
4	53.44	2.23	1.13	1.20	2.24	1.12	1.18	26
5	54.11	2.23	1.13	1.20	2.24	1.12	1.19	25
6	54.37	2.24	1.14	1.21	2.24	1.12	1.19	24
7	55. 2	2.24	1.14	1.21	2.25	1.12	1.19	23
8	55.27	2.24	1.14	1.21	2.25	1.13	1.20	22
9	55.51	2.24	1.14	1.22	2.25	1.13	1.20	21
10	56.14	2.24	1.14	1.22	2.25	1.13	1.20	20
11	56.36	2.24	1.14	1.23	2.25	1.13	1.21	19
12	56.57	2.25	1.15	1.23	2.26	1.14	1.21	18
13	57.17	2.25	1.15	1.24	2.26	1.14	1.21	17
14	57.36	2.25	1.15	1.24	2.26	1.14	1.22	16
15	57.54	2.25	1.15	1.25	2.26	1.14	1.22	15
16	58.11	2.26	1.15	1.25	2.26	1.15	1.22	14
17	58.27	2.26	1.16	1.26	2.27	1.15	1.23	13
18	58.41	2.26	1.16	1.26	2.27	1.15	1.23	12
19	58.54	2.26	1.16	1.27	2.27	1.15	1.24	11
20	59. 5	2.27	1.16	1.27	2.27	1.16	1.24	10
21	59.15	2.27	1.16	1.28	2.28	1.16	1.25	9
22	59.24	2.27	1.17	1.28	2.28	1.16	1.25	8
23	59.32	2.27	1.17	1.29	2.28	1.16	1.26	7
24	59.39	2.28	1.17	1.29	2.29	1.17	1.26	6
25	59.45	2.28	1.17	1.30	2.29	1.17	1.27	5
26	59.50	2.28	1.17	1.31	2.29	1.17	1.27	4
27	59.54	2.29	1.18	1.32	2.30	1.17	1.28	3
28	59.57	2.29	1.18	1.33	2.30	1.18	1.28	2
29	59.59	2.29	1.18	1.34	2.30	1.18	1.29	1
30	60. 0	2.30	1.18	1.34	2.31	1.18	1.29	0
ign.	IX							S

T. Scrup. proport. ac Latit. pro Saturn. Jov. Mart.

Sign.				*III*				
Gradus	*Scrup.*	*Lat. Borea*			*Lat. Auſtrina*			
	Prop.	*Sat.*	*Job.*	*Mar.*	*Sat.*	*Job.*	*Mar.*	
	' ''	o. '	o. '	o. '	o. '	o. '	o. '	G.
1	59.59	2.30	1.19	1.35	2.31	1.18	1.30	29
2	59.57	2.30	1.19	1.36	2.31	1.19	1.30	28
3	59.54	2.30	1.19	1.36	2.31	1.19	1.31	27
4	59.50	2.31	1.19	1.37	2.32	1.19	1.31	26
5	59.45	2.31	1.20	1.38	2.32	1.19	1.32	25
6	59.39	2.31	1.20	1.39	2.32	1.20	1.33	24
7	59.32	2.32	1.20	1.40	2.32	1.20	1.34	23
8	59.24	2.32	1.20	1.40	2.33	1.20	1.35	22
9	59.15	2.32	1.21	1.41	2.33	1.21	1.36	21
10	59. 5	2.32	1.21	1.42	2.33	1.21	1.37	20
11	58.54	2.33	1.21	1.43	2.34	1.21	1.38	19
12	58.41	2.33	1.21	1.44	2.34	1.22	1.39	18
13	58.27	2.33	1.22	1.45	2.34	1.22	1.40	17
14	58.11	2.34	1.22	1.46	2.34	1.22	1.41	16
15	57.54	2.34	1.22	1.47	2.35	1.23	1.42	15
16	57.36	2.34	1.22	1.48	2.35	1.23	1.43	14
17	57.17	2.35	1.23	1.49	2.35	1.23	1.44	13
18	56.57	2.35	1.23	1.50	2.36	1.23	1.45	12
19	56.36	2.35	1.23	1.52	2.36	1.24	1.46	11
20	56.14	2.36	1.23	1.53	2.36	1.24	1.47	10
21	55.51	2.36	1.24	1.54	2.37	1.24	1.48	9
22	55.27	2.36	1.24	1.56	2.37	1.25	1.50	8
23	55. 2	2.36	1.24	1.57	2.37	1.25	1.51	7
24	54.37	2.37	1.24	1.59	2.37	1.25	1.53	6
25	54.11	2.37	1.25	2. 0	2.38	1.26	1.54	5
26	53.44	2.37	1.25	2. 1	2.38	1.26	1.56	4
27	53.16	2.37	1.25	2. 3	2.38	1.26	1.57	3
28	52.48	2.38	1.26	2. 4	2.39	1.27	1.59	2
29	52.19	2.38	1.26	2. 5	2.39	1.27	2. 1	1
30	51.49	2.38	1.26	2. 7	2.39	1.27	2. 3	0

Sign.	IV.							
	Scrup.	*Lat. Borea*			*Lat. Auſtrina*			
Gradus	Prop.	*Sat.*	*Job.*	*Mar.*	*Sat.*	*Job.*	*Mart.*	
	I. II	o. I	o. I	o. I	o. I	o. I	o. I	G.
1	51.19	2.38	1.26	2. 8	2.39	1.28	2. 5	29
2	50.48	2.39	1.27	2.10	2.39	1.28	2. 7	28
3	50.16	2.39	1.27	2.11	2.40	1.28	2. 9	27
4	49.43	2.39	1.27	2.12	2.40	1.28	2.11	26
5	49. 9	2.39	1.28	2.14	2.40	1.29	2.13	25
6	48.34	2.40	1.28	2.15	2.40	1.29	2.15	24
7	47.57	2.40	1.28	2.17	2.41	1.29	2.17	23
8	47.19	2.40	1.28	2.19	2.41	1.29	2.19	22
9	46.39	2.40	1.29	2.21	2.41	1.30	2.21	21
10	45.58	2.40	1.29	2.23	2.41	1.30	2.23	20
11	45.16	2.41	1.29	2.25	2.42	1.30	2.25	19
12	44.33	2.41	1.30	2.27	2.42	1.31	2.28	18
13	43.49	2.41	1.30	2.29	2.42	1.31	2.30	17
14	43. 6	2.41	1.30	2.31	2.42	1.31	2.32	16
15	42.22	2.42	1.30	2.33	2.43	1.31	2.35	15
16	41.37	2.42	1.31	2.35	2.43	1.32	2.37	14
17	40.52	2.42	1.31	2.37	2.43	1.32	2.40	13
18	40. 6	2.42	1.31	2.40	2.43	1.32	2.43	12
19	39.20	2.43	1.31	2.42	2.44	1.32	2.45	11
20	38.33	2.43	1.32	2.45	2.44	1.33	2.48	10
21	37.46	2.43	1.32	2.48	2.44	1.33	2.52	9
22	36.58	2.43	1.32	2.50	2.44	1.33	2.56	8
23	36.10	2.43	1.32	2.52	2.44	1.34	3. 0	7
24	35.21	2.44	1.33	2.55	2.45	1.34	3. 4	6
25	34.31	2.44	1.33	2.57	2.45	1.34	3. 8	5
26	33.41	2.44	1.33	3. 0	2.45	1.34	3.12	4
27	32.50	2.44	1.33	3. 3	2.45	1.35	3.16	3
28	31.58	2.45	1.34	3. 7	2.46	1.35	3.21	2
29	31. 5	2.45	1.34	3.10	2.46	1.35	3.26	1
30	30.11	2.45	1.34	3.13	2.46	1.36	3.32	0
Signa	VII							

Sign. V

Gradus	*Scrup.*	*Lat. Borea*			*Lat. Auſtrina*			
	Prop.	*Sat.*	*Jovis*	*Mart.*	*Sat.*	*Jovis*	*Mart.*	*G.*
	′ ″	° ′	° ′	° ′	° ′	° ′	° ′	
1	29.14	2.45	1.34	3.15	2.46	1.36	3.38	29
2	28.16	2.45	1.35	3.18	2.46	1.36	3.44	28
3	27.18	2.45	1.35	3.20	2.46	1.36	3.50	27
4	26.20	2.46	1.35	3.22	2.47	1.36	3.56	26
5	25.22	2.46	1.35	3.25	2.47	1.37	4. 2	25
6	24.24	2.46	1.35	3.28	2.47	1.37	4. 8	24
7	23.26	2.46	1.35	3.32	2.47	1.37	4.14	23
8	22.28	2.46	1.36	3.36	2.47	1.37	4.21	22
9	21.29	2.46	1.36	3.40	2.47	1.37	4.28	21
10	20.30	2.47	1.36	3.44	2.47	1.38	4.35	20
11	19.30	2.47	1.36	3.48	2.48	1.38	4.42	19
12	18.29	2.47	1.36	3.52	2.48	1.38	4.50	18
13	17.29	2.47	1.37	3.56	2.48	1.38	4.58	17
14	16.29	2.47	1.37	4. 0	2.48	1.38	5. 6	16
15	15.28	2.47	1.37	4. 4	2.48	1.38	5.14	15
16	14.28	2.47	1.37	4. 7	2.48	1.39	5.22	14
17	13.27	2.47	1.37	4.10	2.48	1.39	5.31	13
18	12.26	2.47	1.37	4.13	2.48	1.39	5.39	12
19	11.25	2.47	1.37	4.15	2.49	1.39	5.47	11
20	10.23	2.48	1.37	4.17	2.49	1.39	5.55	10
21	9.21	2.48	1.37	4.19	2.49	1.39	6. 3	9
22	8.18	2.48	1.37	4.21	2.49	1.39	6.11	8
23	7.16	2.48	1.37	4.23	2.49	1.39	6.18	7
24	6.14	2.48	1.38	4.25	2.49	1.39	6.24	6
25	5.12	2.48	1.38	4.26	2.49	1.40	6.29	5
26	4.10	2.48	1.38	4.27	2.49	1.40	6.34	4
27	3. 8	2.48	1.38	4.28	2.49	1.40	6.38	3
28	2. 5	2.48	1.38	4.29	2.49	1.40	6.42	2
29	1. 3	2.48	1.38	4.30	2.49	1.40	6.45	1
30	0. 0	2.48	1.38	4.31	2.49	1.40	6.47	0

Signa VI *S*

Tab. Anomaliarum ♀ & ☿ ad Epoch. PER. JUL. & ANNOS SINGULOS

Epoch. P. J.	*VENERIS.*		*MERCURII*	
	Eccentrici	*Orbis*	*Eccentrici.*	*Orbis.*
	S. o. '. "	S. o. '. "	S. o. '. "	S. o. '. "
	9.28. 8.52	3.20.25.56	6. 6.12.15	6.15. 3.40
1	0. 0.43.26	7.15.38.50	0. 0.43. 3	1.27. 3.56
2	0. 0.27.43	3. 0.40.40	0. 0.26.58	3.21. 1.30
3	0. 0.12. 0	10.15.42.30	0. 0.10.53	5.14.59. 4
4	11.29.56.17	6. 0.44.20	11.29.54.48	7. 8.56.39
5	0. 0.39.43	1.16.23.10	0. 0.37.51	9. 6. 0.35
6	0. 0.24. 0	9. 1.25. 0	0. 0.21.46	10.29.58. 9
7	0. 0. 8.17	4.16.26.50	0. 0. 5.41	0.23.55.43
8	11.29.52.34	0. 1.28.39	11.29.49.35	2.17.53.17
9	0. 0.36. 0	7.17. 7.29	0. 0.32.38	4.14.57.13
10	0. 0.20.17	3. 2. 9.19	0. 0.16.33	6. 8.54.47
11	0. 0. 4.34	10.17.11. 9	0. 0. 0.28	8. 2.52.21
12	11.29.48.52	6. 2.12.59	11.29.44.23	9.26.49.56
13	0. 0.32.18	1.17.51.49	0. 0.27.26	11.23.53.52
14	0. 0.16.35	9. 2.53.39	0. 0.11.21	1.17.51.26
15	0. 0. 0.52	4.17.55.29	11.29.55.16	3.11.49. 0
16	11.29.45. 9	0. 2.57.18	11.29.39.11	5. 5.46.34
17	0. 0.28.35	7.18.36. 8	0. 0.22.14	7. 2.50.30
18	0. 0.12.52	3. 3.37.58	0. 0. 6. 9	8.26.48. 4
19	11.29.57. 9	10.18.39.48	11.29.50. 4	10.20.45.38
20	11.29.41.27	6. 3.41.38	11.29.34. 0	0.14.43.13

Tabula Anomaliarum inferiorum ANNOS JULIANOS SINGULOS.

	VENERIS		*MERCURII*		
an	*Eccentrici*	*Orbis*	*Eccentrici.*	*Orbis*	*Epo-*
a-	*S. o. / //*	*S. o. /. //*	*S. o. /. //.*	*S. o. /. //*	*rum*
ſu	9.17.18.31	9.24.13.46	5.20.42.54	5. 4.40. 0	*di.*
bri	7.16. 1.45	4. 6.21.20	2.24.49.49	1.18.13.48	*ſti.*
I.	11.29.44.17	7.15. 1.50	11.29.43.55	1.23.57.34	I.
I.	11.29.28.34	3. 0. 3.40	11.29.27.50	3.17.55. 7	II.
II	11.29.12.52	10.15. 5.30	11.29.11.45	5.11.52.41	III.
IV	11.29.56.17	6. 0.44.20	11.29.54.48	7. 8.56.39	IV.
V	11.29.40.34	1.15.46.10	11.29.38.43	9. 2.54.12	V.
VI	11.29.24.52	9. 0.48. 0	11.29.22.38	10.26.51.46	VI.
II	11.29. 9. 9	4.15.49.50	11.29. 6.33	0.20.49.19	VII.
III	11.29.52.34	0. 1.28.39	11.29.49.35	2.17.53.17	VIII.
IX	11.29.36.52	7.16.30.29	11.29.33.30	4.11.50.51	IX.
X	11.29.21. 9	3. 1.32.19	11.29.17.25	6. 5.48.24	X.
XI	11.29. 5.26	10.16.34. 9	11.29. 1.20	7.29.45.58	XI.
II	11.29.48.52	6. 2.12.59	11.29.44.23	9.26.49.56	XII.
III	11.29.33. 9	1.17.14.49	11.29.28.18	11.20.47.29	XIII.
IV	11.29.17.26	9. 2.16.38	11.29.12.13	1.14.45. 3	XIV.
V	11.29. 1.44	4.17.18.28	11.28.56. 8	3. 8.42.36	XV.
VI	11.29.45. 9	0. 2.57.18	11.29.39.11	5. 5.46.34	XVI.
VII	11.29.29.26	7.17.59. 8	11.29.23. 6	6.29.44. 8	XVII
IIX	11.29.13.44	3. 3. 0.58	11.29. 7. 1	8.23.41.41	XIIX
IX	11.28.58. 2	10.18. 2.48	11.28.50.56	10.17.39.15	XIX.
X.	11.29.41.27	6. 3.41.38	11.29.34. 0	0.14.43.13	XX.

T. Proſtaph. Eccentr. MARTIS Signi Sup. S.inf. Add.

O.	I.	II.	III.	IV.	V.	gni
o. l. ll	o. l. ll	o. l. ll	o. l. ll	o. l. ll	o. l. ll	Gr
0.10. 1	4.59.11	8.45.18	10.31.35	9.33.32	5.41.18	29
0.20. 2	5. 8.11	8.51. 5	10.32.31	9.28.42	5.30.57	28
0.30. 2	5.17. 5	8.56.43	10.33.19	9.23.38	5.20.27	27
0.40. 2	5.25.53	9. 2.11	10.33.58	9.18.21	5. 9.48	26
0.50. 1	5.34.35	9. 7.29	10.34.20	9.12.49	4.59. 0	25
1. 0. 0	5.43.11	9.12.36	10.34.20	9. 7. 3	4.48. 5	24
1. 9.59	5.51.41	9.17.35	10.34.15	9. 1. 5	4.37. 3	23
1.19.58	6. 0. 5	9.22.26	10.34. 4	8.54.54	4.25.54	22
1.29.56	6. 8.23	9.27.10	10.33.45	8.48.32	4.14.38	21
1.39.52	6.16.36	9.31.45	10.33.18	8.42. 0	4. 3.16	20
1.49.46	6.24.43	9.36.12	10.32.47	8.35.15	3.51.48	19
1.59.37	6.32.44	9.40.32	10.32. 5	8.28.18	3.40.14	18
2. 9.25	6.40.39	9.44.44	10.31. 9	8.21. 9	3.28.34	17
2.19.11	6.48.27	9.48.48	10.29.55	8.13.47	3.16.48	16
2.28.55	6.56.10	9.52.45	10.28.22	8. 6.12	3. 4.55	15
2.38.37	7. 3.47	9.56.33	10.26.31	7.58.25	2.52.56	14
2.48.16	7.11.17	10. 0.10	10.24.22	7.50.27	2.40.51	13
2.57.52	7.18.40	10. 3.36	10.21.55	7.42.27	2.28.40	12
3. 7.25	7.25.57	10. 6.50	10.19.10	7.33.57	2.16.27	11
3.16.55	7.33. 8	10. 9.52	10.16. 6	7.25.27	2. 4.12	10
3.26.22	7.40.13	10.12.44	10.12.55	7.16.47	1.51.55	9
3.35.48	7.47.12	10.15.26	10. 9.37	7. 7.57	1.39.36	
3.45.12	7.54. 5	10.17.58	10. 6.11	6.58.57	1.27.14	
4.54.35	8. 0.52	10.20.20	10. 2.36	6.49.47	1.14.50	
4. 3.56	8. 7.33	10.22.31	9.58.52	6.40.27	1. 2.25	
4.13.15	8.14. 8	10.24.31	9.55. 0	6.30.58	0.49.58	
4.22.31	8.20.37	10.26.20	9.51. 0	6.21.20	0.37.30	
4.31.45	8.27. 0	10.27.57	9.46.52	6.11.32	0.25. 1	
4.40.57	8.33.15	10.29.21	9.42.35	6. 1.35	0.12.31	
4.50. 7	8.39.21	10.30.32	9.38. 9	6.51.30	0. 0. 0	
XI.	X.	IX.	VIII.	VII.	VI.	

Tabul. Diſtantiarum MARTIALIUM a Centro

Si- G.	0. Part.	I. Part.	II. Part.	III. Part.	IV. Part.	V. Part.	gn.
1	111129	109948	106633	101514	95612	90714	29
2	1126	9878	6489	101322	95412	90594	28
3	1119	9804	6343	101129	95214	90478	27
4	1108	9727	6194	100935	95019	90366	26
5	1091	9646	6043	100741	94827	90258	25
6	1072	9561	5890	100546	94640	90152	24
7	1052	9472	5735	100351	94457	90050	23
8	1031	9380	5578	100156	94278	89951	22
9	1009	9286	5419	99961	94103	89854	21
10	0986	9190	5258	99766	93932	89763	20
11	0963	9093	5096	99571	93762	89677	19
12	0939	8993	4933	99376	93593	89595	18
13	0914	8890	4768	99181	93424	89517	17
14	0888	8785	4601	98986	93256	89443	16
15	0860	8678	4433	98791	93088	89374	15
16	0824	8567	4263	98596	92921	89310	14
17	0781	8453	4091	98401	92755	89251	13
18	0732	8336	3918	98206	92590	89197	12
19	0678	8217	3743	98012	92426	89146	11
20	0621	8096	3567	97816	92263	89099	10
21	0563	7973	3389	97620	92103	89055	9
22	0504	7848	3209	97423	91947	89015	8
23	0445	7720	3027	97225	91795	88979	7
24	0385	7590	2843	97027	91647	88948	6
25	0324	7459	2657	96828	91503	88922	5
26	0263	7326	2469	96627	91363	88901	4
27	0201	7191	2279	96425	91226	88886	3
28	0139	7054	2089	96222	91093	88877	2
29	0076	6915	1898	96018	90963	88872	1
30	0013	6775	1706	95814	90837	88870	0
	XI.	X.	IX.	VIII.	VII.	VI.	

Tab. Anomaliarum Infer. in MENS., DIEB.

Dies	*Eccentrici utriusbis*	*Orbis Veneris*	*Orbis Mercurii*	Dies
	o. ′. ″	o. ′. ″	S. o. ′. ″	
1	0. 59. 8	0. 36. 59	0. 3. 6.24	1
2	1. 58.17	1. 13. 59	0. 6.12.48	2
3	2. 57.25	1. 50. 58	0. 9.19.13	3
4	3. 56.33	2. 27. 58	0.12.25.37	4
5	4. 55.41	3. 4. 57	0.15.32. 1	5
6	5. 54.49	3. 41. 57	0.18.38.25	6
7	6. 53.57	4. 18. 56	0.21.44.50	7
8	7. 53. 5	4. 55. 56	0.24.51.14	8
9	8. 52.13	5. 32. 55	0.27.57.38	9
10	9. 51.21	6. 9. 55	1. 1. 4. 2	10
11	10. 50.29	6. 46. 54	1. 4.10.27	11
12	11. 49.37	7. 23. 54	1. 7.16.51	12
13	12. 48.45	8. 0. 53	1.10.23.15	13
14	13. 47.53	8. 37. 53	1.13.29.39	14
15	14. 47. 1	9. 14. 52	1.16.36. 3	15
16	15. 46. 9	9. 51. 51	1.19.42.28	16
17	16. 45.17	10. 28. 51	1.22.48.52	17
18	17. 44.26	11. 5. 50	1.25.55.16	18
19	18. 43.34	11. 42. 49	1.29. 1.40	19
20	19. 42.42	12. 19. 49	2. 2. 8. 5	20
21	20. 41.50	12. 56. 48	2. 5.14.29	21
22	21. 40.58	13. 33. 48	2. 8.20.53	22
23	22. 40. 6	14. 10. 47	2.11.27.17	23
24	23. 39.14	14. 47. 47	2.14.33.42	24
25	24. 38.22	15. 24. 46	2.17.40. 6	25
26	25. 37.30	16. 1. 46	2.20.46.30	26
27	26. 36.38	16. 38. 45	2.23.52.54	27
28	27 35.46	17. 15. 45	2.26.59.19	28
29	28. 34.54	17. 52. 44	3. 0. 5.43	29
30	29. 34. 2	18. 29. 44	3. 3.12. 7	30
31	30. 33.10	19. 6. 43	3. 6.18.31	31

Tab. Anomal. inf. in Dier. Horis & Horar. Scrup.

Dies	Eccentr. utriusque	Orbis Ven.	Orbis Merc.	Scrup.	Eccentr. utriusque	Orbis Veneris	Orbis Merc.
	o. I. II	I. II	o. I. II		I. II. III	I. II. III	I. II. III
1	0. 2.28	1.32	0. 7.46	31	1.16.23	0.47.47	4. 0.4
2	0. 4.56	3. 5	0.15.32	32	1.18.51	0.49.19	4. 8.3
3	0. 7.24	4.37	0.23.18	33	1.21.19	0.50.52	4.16.1
4	0. 9.51	6.10	0.31. 4	34	1.23.46	0.52.24	4.24.
5	0.12.19	7.42	0.38.50	35	1.26.14	0.53.57	4.31.5
6	0.14.47	9.15	0.46.36	36	1.28.42	0.55.29	4.39.3
7	0.17.15	10.47	0.54.22	37	1.31.10	0.57. 2	4.47.2
8	0.19.43	12.20	1. 2. 8	38	1.33.38	0.58.34	4.55.
9	0.22.11	13.52	1. 9.54	39	1.36. 6	1. 0. 7	5. 2.5
10	0.24.38	15.25	1.17.40	40	1.38.33	1. 1.39	5.10.4
11	0.27. 6	16.57	1.25.26	41	1.41. 1	1. 3.12	5.18.2
12	0.29.34	18.30	1.33.12	42	1.43.29	1. 4.44	5.26.1
13	0.32. 2	20. 2	1.40.58	43	1.45.57	1. 6.17	5.33.5
14	0.34.30	21.35	1.48.44	44	1.48.25	1. 7.49	5.41.4
15	0.36.58	23. 7	1.56.30	45	1.50.53	1. 9.22	5.49.3
16	0.39.26	24.40	2. 4.16	46	1.53.20	1.10.54	5.57.1
17	0.41.53	26.12	2.12. 2	47	1.55.48	1.12.27	6. 5.
18	0.44.21	27.45	2.19.48	48	1.58.16	1.13.59	6.12.4
19	0.46.49	29.17	2.27.34	49	2. 0.44	1.15.31	6.20.3
20	0.49.17	30.50	2.35.20	50	2. 3.12	1.17. 4	6.28.2
21	0.51.45	32.22	2.43. 6	51	2. 5.40	1.18.36	6.36.
22	0.54.13	33.55	2.50.52	52	2. 8. 7	1.20. 9	6.43.5
23	0.56.40	35.27	2.58.38	53	2.10.35	1.21.41	6.51.3
24	0.59. 8	36.59	3. 6.24	54	2.13. 3	1.23.14	6.59.2
25	1. 1.36	38.32	3.14.10	55	2.15.31	1.24.46	7. 7.1
26	1. 4. 4	40. 4	3.21.56	56	2.17.59	1.26.19	7.14.
27	1. 6.32	41.37	3.29.42	57	2.20.27	1.27.51	7.22.
28	1. 8.59	43. 9	3.37.28	58	2.22.54	1.29.23	7.30.
29	1.11.27	44.42	3.45.14	59	2.25.22	1.30.55	7.38.
30	1.13.55	46.14	3.53. 0	60	2.27.50	1.32.28	7.46.
I.	I. II. III	II. III	I. III. IV	I.	II. III. IV	II. III. IV	II. III.
II.	I. III. IV	III. IV	II. III. IV	II	II. IV. V	III. IV. V	I. III

	0	I	II.	III.	IV.	V.	gna
G.	'. "	o. '. "	o. '. "	o. '. "	o. '. "	'. "	Gr
1	1.54	0.56. 7	1.35.46	1.50.16	1.35.12	54. 9	29
2	3.48	0.57.45	1.36.42	1.50.15	1.34.13	52.26	28
3	5.42	0.59.22	1.37.36	1.50.11	1.33.12	50.42	27
4	7.36	1. 0.58	1.38.29	1.50. 6	1.32. 9	48.58	26
5	9.29	1. 2.33	1.39.20	1.49.58	1.31. 4	47.13	25
6	11.22	1. 4. 6	1.40. 9	1.49.48	1.29.57	45.27	24
7	13.15	1. 5.38	1.40.56	1.49.37	1.28.49	43.40	23
8	15. 8	1. 7. 9	1.41.41	1.49.24	1.27.40	41.52	22
9	17. 1	1. 8.39	1.42.24	1.49. 8	1.26.29	40. 3	21
10	18.53	1.10. 8	1.43. 6	1.48.50	1.25.16	38.13	20
11	20.45	1.11.35	1.43.46	1.48.31	1.24. 1	36.23	19
12	22.37	1.13. 1	1.44.24	1.48.10	1.22.44	34.32	18
13	24.28	1.14.26	1.45. 0	1.47.46	1.21.25	32.41	17
14	26.19	1.15.50	1.45.34	1.47.21	1.20. 6	30.49	16
15	28. 9	1.17.12	1.46. 6	1.46.54	1.18.46	28.56	15
16	29.59	1.18.33	1.46.36	1.46.25	1.17.24	27. 3	14
17	31.48	1.19.53	1.47. 5	1.45.53	1.16. 0	25. 9	13
18	33.37	1.21.11	1.47.32	1.45.19	1.14.34	23.15	12
19	35.26	1.22.28	1.47.56	1.44.44	1.13. 7	21.20	11
20	37.14	1.23.43	1.48.18	1.44. 7	1.11.39	19.25	10
21	39. 1	1.24.56	1.48.39	1.43.27	1.10.10	17.30	9
22	40.48	1.26. 8	1.48.58	1.42.46	1. 8.40	15.34	8
23	42.34	1.27.19	1.49.15	1.42. 3	1. 7. 8	13.38	7
24	44.19	1.28.29	1.49.29	1.41.18	1. 5.35	11.42	6
25	46. 3	1.29.37	1.49.42	1.40.31	1. 4. 0	9.45	5
26	47.46	1.30.43	1.49.53	1.39.43	1. 2.24	7.48	4
27	49.28	1.31.47	1.50. 1	1.38.53	1. 0.47	5.51	3
28	51. 9	1.32.49	1.50. 7	1.38. 0	0.59. 9	3.54	2
29	52.49	1.33.49	1.50.12	1.37. 6	0.57.30	1.57	1
30	54.2[illegible]	1.34.48	1.50.15	1.36.10	0.55.50	0. 0	0
S	XI.	X.	IX.	VIII	VII.	VI.	gna

Si.	0	I.	II.	III.	IV.	V.	gna
G.	′. ″	′. ″	′. ″	0. ′. ″	0. ′. ″	0. ′. ″	G.
1	0.28	14.52	31.18	0.53.14	1.27.47	2.29.39	29
2	0.56	15.23	31.55	0.54. 7	1.29.19	2.32. 0	28
3	1.24	15.54	32.33	0.55.[illegible]	1.30.54	2.34.19	27
4	1.52	16.25	33.11	0.55.56	1.32.31	2.36.32	26
5	2.20	16.56	33.50	0.56.52	1.34.10	2.38.38	25
6	2.48	17.27	34.29	0.57.49	1.35.50	2.40.34	24
7	3.16	17.58	35. 8	0.58.47	1.37.33	2.42.20	2
8	3.44	18.29	35.47	0.59.45	1.39.18	2.43.54	2
9	4.12	19.20	36.26	1. 0.44	1.41. 5	2.45.11	21
10	4.40	19.31	37. 6	1. 1.44	1.42.54	2.46. 5	2
11	5. 8	20. 2	37.46	1. 2.45	1.44.46	2.46.42	1
12	5.36	20.34	38.27	1. 3.48	1.46.40	2.46.49	1
13	6. 4	21. 6	39. 9	1. 4.52	1.48.37	2.46.24	1
14	6.32	21.38	39.51	1. 5.57	1.50.36	2.45.20	1
15	7. 0	22.10	40.34	1. 7. 3	1.52.38	2.43.34	1
16	7.28	22.42	41.17	1. 8.10	1.54.42	2.40.57	1
17	7.56	23.15	42. 1	1. 9.18	1.56.49	2.37.24	1
18	8.24	23.48	42.45	1.10.28	1.58.58	2.32.48	1
19	8.53	24.21	43.30	1.11.39	2. 1.10	2.27. 5	
20	9.22	24.54	44.16	1.12.52	2. 3.25	2.20. 4	
21	9.51	25.28	45. 2	1.14. 6	2. 5.42	2.11.49	
22	10.20	26. 2	45.48	1.15.21	2. 8. 0	2. 2. 3	
23	10.49	26.36	46.35	1.16.38	2.10.20	1.50.54	
24	11.19	27.10	47.22	1.17.56	2.12.42	1.38.22	
25	11.49	27.44	48.10	1.19.15	2.15. 6	1.24.24	
26	12.19	28.19	48.59	1.20.36	2.17.32	1. 9.17	
27	12.49	28.54	49.48	1.21.59	2.19.59	1.52.56	
28	13.19	29.29	50.38	1.23.23	2.22.26	0.35.48	
29	13.50	30. 5	51.29	1.24.49	2.24.52	0.18. 4	
30	14.21	30.41	52.21	1.26.17	2.27.16	0. 0. 0	
Si	XI.	X.	IX	VIII.	VII.	VI.	gn.

Tab. Proſtaph. Orbis Annui Ven. Signi Sup. A.

Si-	0		I.		II.		gna
	Proſt.	Scrup.	Proſt.	Scrup.	Proſt.	Scrup.	Grad.
G.	o.'.''	'.''	o. '.''	'.''	o. '.''	'.''	
1	0.24.57	0. 0	12.49. 8	3.47	24.49.11	14. 0	29
2	0.49.54	0. 0	13.13.40	4. 1	25.12.23	14.25	28
3	1.14.50	0. 1	13.38.11	4.16	25.35.31	14.51	27
4	1.39.45	0. 2	14. 2.41	4.32	25.58.35	15.17	26
5	2. 4.40	0. 3	14.27. 9	4.48	26.21.35	15.44	25
6	2.29.35	0. 5	14.51.35	5. 4	26.44.31	16.11	24
7	2.54.30	0. 8	15.15.59	5.21	27. 7.22	16.39	23
8	3.19.24	0.11	15.40.21	5.39	27.30. 8	17. 7	22
9	3.44.18	0.15	16. 4.41	5.57	27.52.49	17.35	21
10	4. 9.12	0.20	16.28.59	6.16	28.15.25	18. 3	20
11	4.34. 6	0.25	16.53.15	6.35	28.37.56	18.31	19
12	4.58.59	0.31	17.17.29	6.54	29. 0.21	19. 0	18
13	5.23.52	0.37	17.41.41	7.13	29.22.41	19.29	17
14	5.48.44	0.44	18. 5.50	7.33	29.44.55	19.58	16
15	6.13.36	0.52	18.29.57	7.53	30. 7. 3	20.27	15
16	6.38.27	1. 0	18.54. 2	8.13	30.29. 5	20.56	14
17	7. 3.17	1. 8	19.18. 4	8.34	30.51. 0	21.26	13
18	7.28. 6	1.17	19.42. 3	8.55	31.12.49	21.56	12
19	7.52.54	1.26	20. 5.59	9.17	31.34.32	22.26	11
20	8.17.41	1.36	20.29.53	9.39	31.56. 9	22.56	10
21	8.42.28	1.46	20.53.44	10. 1	32.17.39	23.26	9
22	9. 7.14	1.57	21.17.32	10.24	32.39. 1	23.56	8
23	9.31.59	2. 8	21.41.17	10.47	33. 0.15	24.26	7
24	9.56.43	2.19	22. 4.59	11.10	33.21.20	24.57	6
25	10.21.26	2.30	22.28.38	11.33	33.42.17	25.28	5
26	10.46. 7	2.42	22.52.13	11.57	34. 3. 6	25.59	4
27	11.10.46	2.54	23.15.45	12.21	34.23.46	26.30	3
28	11.35.24	3. 7	23.39.13	12.45	34.44.18	27. 1	2
29	12. 0. 0	3.20	24. 2.36	13.10	35. 4.42	27.32	1
30	12.24.35	3.33	24.25.55	13.35	35.24.57	28. 3	0
	XI.		X		IX.		

S	III		IV		V	
	Proſt.	*Scr.*	*Proſt.*	*Scr.*	*Proſt.*	*Scr.*
G.	o. ′. ″	′. ″	o. ′. ″	′. ″	o. ′. ″	′. ″
1	35.45. 2	28.35	43.52.56	43.59	42.21.33	55.47
2	36. 4.56	29. 7	44. 3.28	44.27	41.53.34	56. 3
3	36.24.39	29.38	44.13.28	44.55	41.22.49	56.19
4	36.44.11	30. 9	44.22.54	45.23	40.49. 8	56.34
5	37. 3.32	30.41	44.31.44	45.51	40.12.19	56.49
6	37.22.42	31.12	44.39.55	46.19	39.32.12	57. 3
7	37.41.40	31.44	44.47.26	46.47	38.48.34	57.17
8	38. 0.26	32.15	44.54.16	47.14	38. 1.12	57.31
9	38.18.59	32.47	45. 0.24	47.41	37. 9.54	57.44
10	38.37.19	33.18	45. 5.39	48. 8	36.14.27	57.57
11	38.55.25	33.50	45.10. 9	48.34	35.14.34	58. 9
12	39.13.17	34.21	45.13.51	48.59	34.10. 4	58.21
13	39.30.54	34.52	45.16.40	49.24	33. 0.42	58.33
14	39.48.16	35.24	45.18.32	49.49	31.46.17	58.44
15	40. 5.23	35.56	45.19.20	50.13	30.26.34	58.54
16	40.22.14	36.27	45.19. 7	50.37	29. 1.25	59. 2
17	40.38.47	36.59	45.17.40	51. 1	27.30.36	59. 9
18	40.55. 1	37.30	45.15.23	51.24	25.54. 3	59.16
19	41.10.56	38. 1	45.11.43	51.47	24.11.38	59.2[illegible]
20	41.26.32	38.32	45. 6.45	52. 9	22.23.25	59.29
21	41.41.48	39. 3	45. 0.25	52.31	20.29.21	59.3[illegible]
22	41.56.43	39.34	44.52.39	52.53	18.29.45	59.39
23	42.11.17	40. 5	44.43.20	53.15	16.24.42	59.43
24	42.25.29	40.35	44.32.25	53.36	14.14.33	59.47
25	42.39.19	41. 5	44.19.46	53.56	11.59.52	59.50
26	42.52.45	41.35	44. 5.18	54.16	9.41. 2	59.5[illegible]
27	43. 5.45	42. 4	43.48.55	54.35	7.18.56	59.56
28	43.18.17	42.33	43.30.29	54.54	4.54. 4	59.58
29	43.30.20	43. 2	43. 9.51	55.12	2.27.3[illegible]	59.59
30	43.41.53	43.31	42.46.56	55.30	0. 0. 0	60. 0
	VIII		VII		VI	

T. Scrupul. Prop. pro Ven. & Merc. ac Decl. pro ♀

Si.	0. VI.	I. VII.	II. VIII	0	I.	II.	III	IV.	V.	gr.
	Scrup.	Scr.	Scrup.	Dec	Dec	Dec	Dec	Dec.	Dec	
G.	′. ″	′. ″	′. ″	°. ′	°. ′	°. ′	°. ′	°. ′	°. ′	G.
1	1. 3	31. 5	52.19	1.28	1.18	0.50	0. 1	1.29	4.21	29
2	2. 5	31.58	52.48	1.28	1.18	0.48	0. 3	1.33	4.30	28
3	3. 8	32.50	53.16	1.28	1.17	0.47	0. 6	1.37	4.39	27
4	4.10	33.41	53.44	1.28	1.17	0.45	0. 8	1.40	4.48	26
5	5.12	34.31	54.11	1.28	1.16	0.44	0.10	1.44	4.58	25
6	6.14	35.21	54.37	1.27	1.15	0.42	0.13	1.48	5. 8	24
7	7.16	36.10	55. 2	1.27	1.15	0.41	0.15	1.52	5.18	23
8	8.18	36.58	55.27	1.27	1.14	0.40	0.18	1.56	5.28	22
9	9.21	37.46	55.51	1.27	1.13	0.38	0.21	2. 1	5.38	21
10	10.23	38.33	56.14	1.27	1.12	0.36	0.24	2. 6	5.48	20
11	11.25	39.20	56.36	1.26	1.11	0.35	0.26	2.11	5.59	19
12	12.26	40. 6	56.57	1.26	1.10	0.33	0.29	2.16	6.10	18
13	13.27	40.52	57.17	1.26	1. 9	0.32	0.31	2.21	6.22	17
14	14.28	41.37	57.36	1.26	1. 8	0.30	0.34	2.26	6.34	16
15	15.28	42.22	57.54	1.25	1. 7	0.29	0.37	2.31	6.47	15
16	16.29	43. 6	58.11	1.25	1. 6	0.27	0.40	2.36	6.59	14
17	17.29	43.49	58.27	1.25	1. 5	0.25	0.43	2.42	7.11	13
18	18.29	44.33	58.41	1.24	1. 4	0.24	0.46	2.48	7.23	12
19	19.30	45.16	58.54	1.24	1. 3	0.22	0.48	2.54	7.34	11
20	20.30	45.58	59. 5	1.24	1. 2	0.20	0.51	3. 0	7.44	10
21	21.29	46.39	59.15	1.23	1. 1	0.18	0.54	3. 6	7.54	9
22	22.28	47.19	59.24	1.23	1. 0	0.16	0.57	3.12	8. 3	8
23	23.26	47.57	59.32	1.22	0.59	0.14	1. 0	3.19	8.12	7
24	24.24	48.34	59.39	1.22	0.58	0.12	1. 4	3.26	8.21	6
25	25.22	49. 9	59.45	1.21	0.57	0.10	1. 7	3.33	8.29	5
26	26.20	49.43	59.50	1.21	0.56	0. 8	1.10	3.40	8.37	4
27	27.18	50.16	59.54	1.20	0.55	0. 6	1.14	3.48	8.44	3
28	28.16	50.48	59.57	1.20	0.54	0. 4	1.17	3.55	8.50	2
29	29.14	51.19	59.59	1.19	0.52	0. 2	1.21	4. 3	8.56	1
30	30.11	51.49	60. 0	1.19	0.51	0. 0	1.25	4.12	9. 2	0
Si	V. XI.	IV. X	III. IX	XI	X	IX	VIII	VII.	VI.	gr.

ſi-	0. VI.	I. VII.	II. VIII	0	I.	II.	III	IV.	V.	gn
Gradus	Scrup.	Scr.	Scrup.	Refl.	Refl.	Refl.	Refl.	Refl.	Refl.	
	′. ″	′. ″	′. ″	o. ′	o. ′	o. ′	o. ′	o. ′	o. ′	G
1	59.59	51.19	29.14	0. 1	0.47	1.29	2. 4	2.27	2.24	2[illegible]
2	59.57	50.48	28.16	0. 3	0.48	1.30	2. 5	2.28	2.23	2[illegible]
3	59.54	50.16	27.18	0. 4	0.50	1.31	2. 6	2.28	2.22	2[illegible]
4	59.50	49.43	26.20	0. 6	0.51	1.33	2. 7	2.28	2.20	2[illegible]
5	59.45	49. 9	25.22	0. 7	0.53	1.34	2. 8	2.29	2.19	2[illegible]
6	59.39	48.34	24.24	0. 9	0.54	1.35	2. 9	2.29	2.17	24
7	59.32	47.57	23.26	0.10	0.56	1.37	2.10	2.30	2.15	2[illegible]
8	59.24	47.19	22.28	0.12	0.58	1.38	2.11	2.30	2.13	2[illegible]
9	59.15	46.39	21.29	0.14	0.59	1.39	2.12	2.30	2.10	2[illegible]
10	59. 5	45.58	20.30	0.15	1. 0	1.40	2.12	2.31	2. 7	2[illegible]
11	58.54	45.16	19.30	0.17	1. 2	1.42	2.13	2.31	2. 4	19
12	58.41	44.33	18.29	0.19	1. 3	1.43	2.14	2.31	2. 0	18
13	58.27	43.49	17.29	0.20	1. 5	1.44	2.15	2.31	1.56	17
14	58.11	43. 6	16.29	0.22	1. 6	1.45	2.15	2.32	1.52	16
15	57.54	42.22	15.28	0.23	1. 8	1.46	2.16	2.32	1.48	15
16	57.36	41.37	14.28	0.25	1. 9	1.48	2.17	2.33	1.43	14
17	57.17	40.52	13.27	0.26	1.11	1.49	2.18	2.32	1.38	1[illegible]
18	56.57	40. 6	12.26	0.27	1.1[illegible]	1.50	2.19	2.32	1.33	1[illegible]
19	56.36	39.20	11.25	0.29	1.13	1.51	2.20	2.32	1.28	11
20	56.14	38.33	10.23	0.30	1.14	1.52	2.21	2.32	1.22	1[illegible]
21	55.41	37.46	9.21	0.32	1.16	1.53	2.21	2.31	1.16	9
22	55.27	36.58	8.18	0.33	1.17	1.54	2.22	2.31	1. 9	8
23	55. 2	36.10	7.16	0.35	1.19	1.56	2.23	2.30	1. 2	7
24	54.37	35.21	6.14	0.36	1.20	1.57	2.23	2.30	0.54	6
25	54.11	34.31	5.12	0.38	1.22	1.58	2.24	2.29	0.46	5
26	53.44	33.41	4.10	0.39	1.23	1.59	2.25	2.28	0.37	4
27	53.16	32.50	3. 8	0.41	1.24	2. 0	2.25	2.28	0.28	3
28	52.48	31.58	2. 5	0.42	1.25	2. 1	2.26	2.27	0.19	[illegible]
29	52.19	31. 5	1. 3	0.44	1.26	2. 2	2.27	2.26	0.10	[illegible]
30	51.49	30.11	0. 0	0.45	1.28	2. 3	2.27	2.25	0. 0	[illegible]
	V. XI	IV. X	III. IX	XI	X	IX	VIII	VII.	VI.	

Tab. Proſtaphær. Eccen. Merc. Sign. Sup. S. inf. A.

	0	I.	II.	III.	IV.	V.	gra
	′. ″	°. ′. ″	°. ′. ″	°. ′. ″	°. ′. ″	′. ″	Gr.
1	1.54	1. 1.58	2.14.25	3.17. 9	3.29.10	2.12.10	29
2	3.47	1. 4.16	2.16.53	3.18.19	3.28.16	2. 8.36	28
3	5.41	1. 6.36	2.19.21	3.19.28	3.27.16	2. 4.58	27
4	7.35	1. 8.58	2.21.49	3.20.35	3.26.10	2. 1.16	26
5	9.29	1.11.22	2.24.17	3.21.41	3.24.56	1.57.30	25
6	11.23	1.13.46	2.26.45	3.22.46	3.23.34	1.53.40	24
7	13.18	1.16.10	2.29.13	3.23.50	3.22. 2	1.49.44	23
8	15.13	1.18.34	2.31.41	3.24.54	3.20.19	1.45.43	22
9	17. 9	1.20.58	2.34. 9	3.25.57	3.18.24	1.41.38	21
10	19. 6	1.23.22	2.36.38	3.26.59	3.16.18	1.37.25	20
11	21. 4	1.25.46	2.39. 7	3.28. 0	3.14. 0	1.33. 5	19
12	23. 3	1.28.10	2.41.34	3.29. 0	3.11.30	1.28.38	18
13	25. 2	1.30.35	2.44. 1	3.29.59	3. 8.53	1.24. 3	17
14	27. 1	1.33. 0	2.46.24	3.30.57	3. 6. 8	1.19.20	16
15	29. 0	1.35.25	2.48.41	3.31.53	3. 3.15	1.14.31	15
16	31. 0	1.37.50	2.50.57	3.32.43	3. 0.18	1. 9.38	14
17	33. 0	1.40.15	2.53.10	3.33.29	2.57.18	1. 4.43	13
18	35. 0	1.42.40	2.55.20	3.34. 0	2.54.14	0.59.47	12
19	37. 0	1.45. 5	2.57.25	3.34. 0	2.51. 9	0.54.50	11
20	39. 0	1.47.31	2.59.28	3.33.56	2.48. 3	0.49.52	10
21	41. 0	1.49.57	3. 1.28	3.33.50	2.44.56	0.44.54	9
22	43. 0	1.52.23	3. 3.24	3.33.42	2.41.48	0.39.56	8
23	45. 0	1.54.49	3. 5.16	3.33.31	2.38.39	0.34.57	7
24	47. 0	1.57.15	3. 7. 0	3.33.13	2.35.29	0.29.58	6
25	49. 1	1.59.42	3. 8.40	3.32.51	2.32.17	0.24.59	5
26	51. 4	2. 2. 9	3.10.18	3.32.25	2.29. 3	0.20. 0	4
27	53. 9	2. 4.36	3.11.51	3.31.55	2.25.47	0.15. 0	3
28	55.17	2. 7. 3	3.13.18	3.31.22	2.22.28	0.10. 0	2
29	57.28	2. 9.30	3.14.40	3.30.45	2.19. 6	0. 5. 0	1
30	59.42	2.11.57	3.15.57	3.30. 0	2.15.40	0. 0. 0	0
Gr	XI.	X.	IX.	VIII	VII.	VI.	gra

Si	0	I.	II.	III.	IV.	V.	gna
G.	I. II	o. I. II	o. I. II	o. I. II	o. I. II	o. I. II	G.
1	1.20	0.42.14	1.25. 9	2.10.16	2.48. 4	2.30.25	29
2	2.40	0.43.38	1.26.38	2.11.45	2.48.49	2.27.48	28
3	4. 1	0.45. 2	1.28. 7	2.13.13	2.49.30	2.25. 3	27
4	5.22	0.46.26	1.29.37	2.14.41	2.50. 8	2.22.15	26
5	6.43	0.47.50	1.31. 7	2.16. 9	2.50.42	2.19.24	25
6	8. 4	0.49.14	1.32.37	2.17.37	2.51.12	2.16.30	24
7	9.25	0.50.38	1.34. 7	2.19. 5	2.51.37	2.13.26	23
8	10.46	0.52. 2	1.35.37	2.20.33	2.51.59	2.10.11	22
9	12. 8	0.53.26	1.37. 7	2.22. 0	2.52.18	2. 6.40	21
10	13.30	0.54.50	1.38.37	2.23.26	2.52.36	2. 2.53	20
11	14.51	0.56.15	1.40. 8	2.24.51	2.52.52	1.58.43	19
12	16.12	0.57.40	1.41.39	2.26.15	2.53. 0	1.54. 3	18
13	17.32	0.59. 5	1.43.10	2.27.38	2.52.53	1.48.53	17
14	18.52	1. 0.30	1.44.41	2.28.59	2.52.41	1.43.13	16
15	20.13	1. 1.55	1.46.12	2.30.19	2.52.22	1.37. 8	15
16	21.34	1. 3.21	1.47.42	2.31.38	2.51.57	1.30.53	14
17	22.55	1. 4.47	1.49.12	2,32.56	2.51.26	1.24.33	13
18	24.16	1. 6.13	1.50.42	2.34.13	2.50.47	1.18.10	12
19	25.38	1. 7.39	1.52.12	2.35.29	2.50. 3	1.11.46	11
20	27. 0	1. 9. 5	1.53.42	2.36.45	2.49.11	1. 5.21	10
21	28.22	1.10.32	1.55.12	2.38. 0	2.48. 8	0.58.54	9
22	29.44	1.11.59	1.56.42	2.39.13	2.46.56	0.52.25	
23	31. 7	1.13.26	1.58.12	2.40.23	2.45.38	0.45.55	
24	32.30	1.14.53	1.59.43	2.41.31	2.44.14	0.39.24	
25	33.53	1.16.20	2. 1.14	2.42.36	2.42.43	0.32.52	
26	35.16	1.17.48	2. 2.45	2.43.38	2.41. 5	0.26.19	
27	36.39	1.19.16	2. 4.16	2.44.37	2.39.17	0.19.45	
28	38. 2	1.20.44	2. 5.46	2.45.33	2.37.19	0.13.11	
29	39.26	1.22.12	2. 7.17	2.46.26	2.35.11	0. 6.36	
30	40.50	1.23.40	2. 8.47	2.47.16	2.32.53	0. 0. 0	
Si	XI.	X.	IX.	VIII.	VII	VI.	

Tab. Proſtaph. Orbis Annui Mercur. Signi Sup. A.

G.	0. Proſt.	0. Scrup.	I. Proſt.	I. Scrup.	II. Proſt.	II. Scrup.	gra.
	°.′.″	′.″	°.′.″	′.″	°.′.″	′.″	
1	0.15.54	0. 1	8. 4.34	7.40	15. 1.20	24.16	29
2	0.31.48	0. 2	8.19.25	8. 4	15.13.42	24.54	28
3	0.47.41	0. 3	8.34.14	8.29	15.25.54	25.31	27
4	1. 3.34	0. 6	8.49. 1	8.54	15.37.55	26. 9	26
5	1.19.26	0.10	9. 3.46	9.19	15.49.45	26.46	25
6	1.35.18	0.17	9.18.29	9.45	16.1. 24	27.23	24
7	1.51. 9	0.24	9.33.10	10.12	16.12.52	28. 0	23
8	2. 6.59	0.32	9.47.49	10.41	16.24.10	28.37	22
9	2.22.49	0.42	10. 2.26	11.12	16.35.18	29.14	21
10	2.38.39	0.53	10.17. 1	11.46	16.46.16	29.51	20
11	2.54.29	1. 4	10.31.33	12.20	16.57. 5	30.28	19
12	3.10.19	1.16	10.46. 0	12.54	17. 7.46	31. 5	18
13	3.26. 8	1.29	11. 0.22	13.28	17.18.19	32.41	17
14	3.41.57	1.42	11.14.39	14. 2	17.28.44	32.17	16
15	3.57.46	1.56	11.28.50	14.36	17.39. 2	32.53	15
16	4.13.34	2.12	11.42.55	15.10	17.49.11	33.29	14
17	4.29.22	2.29	11.56.53	15.45	17.59.11	34. 4	13
18	4.45. 9	2.47	12.10.44	16.20	18. 9. 3	34.38	12
19	5. 0.55	3. 6	12.24.28	16.55	18.18.48	35.11	11
20	5.16.41	3.26	12.38. 4	17.31	18.28.24	35.44	10
21	5.32.25	3.47	12.51.35	18. 7	18.37.47	36.17	9
22	5.48. 3	4. 9	13. 5. 1	18.43	18.46.53	36.50	8
23	6. 3.35	4.32	13.18.21	19.19	18.55.42	37.24	7
24	6.19. 1	4.55	13.31.35	19.56	19. 4.14	37.57	6
25	6.34.21	5.18	13.44.44	20.33	19.12.29	38.30	5
26	6.49.34	5.41	13.57.47	21.10	19.20.2[illegible]	39. 3	4
27	7. 4.42	6. 4	14.10.43	21.47	19.28.[illegible]	39.37	3
28	7.19.45	6.28	14.23.32	22.25	19.35.34	40.11	2
29	7.34.44	6.52	14.36.13	23. 2	19.42. 4	40.44	1
30	7.49.40	7.16	14.48.47	23.39	19.49.32	41.16	0
	XI.		X.		IX.		

infer. S. & Scrupulorum Proportionalium

Si-	III.		IV		V.		gn.
G.	Proſt. o. ′. ″	Scr. ′. ″	Proſt. o. ′. ″	Scr. ′. ″	Proſt. o. ′. ″	Scr. ′. ″	Grad.
1	19.56. 7	41.47	20.46.23	53.27	14.18.12	58.47	29
2	20. 2.27	42.17	20.41.35	53.43	13.55.10	58.52	28
3	20. 8.31	42.46	20.36.26	53.59	13.31.33	58.56	27
4	20.14.22	43.15	20.30.45	54.14	13. 7.31	59. 0	26
5	20.19.59	43.43	20.24.36	54.29	12.43. 7	59. 4	25
6	20.25.23	44.11	20.17.57	54.43	12.18.23	59. 9	24
7	20.30.33	44.39	20.10.49	54.57	11.53. 4	59.14	23
8	20.35.29	45. 6	20. 3. 9	55.11	11.27.16	59.19	22
9	20.40. 8	45.33	19.54.53	55.24	11. 0.38	59.23	21
10	20.44.28	46. 0	19.45.58	55.37	10.33.25	59.27	20
11	20.48.18	46.26	19.36.33	55.49	10. 5.33	59.31	19
12	20.51.48	46.51	19.26.37	56. 1	9.36.56	59.35	18
13	20.54.58	47.16	19.16. 7	56.13	9. 7.45	59.38	17
14	20.57.48	47.40	19. 5. 1	56.24	8.38. 4	59.41	16
15	21. 0.18	48. 4	18.53.21	56.35	8. 7.58	59.44	15
16	21. 2.28	48.28	18.40.59	56.45	7.37.32	59.46	14
17	21. 4.16	48.52	18.27.51	56.55	7. 6.46	59.48	13
18	21. 5.41	49.15	18.13.55	57. 5	6.35.39	59.50	12
19	21. 6.42	49.38	17.59.37	57.15	6. 4.12	59.52	11
20	21. 7.19	50. 0	17.44.52	57.24	5.32.24	59.54	10
21	21. 7.33	50.22	17.29.22	57.33	5. 0. 7	59.56	9
22	21. 7.23	50.43	17.13.22	57.41	4.27.31	59.57	8
23	21. 7. 3	51. 3	16.56.48	57.49	3.54.35	59.58	7
24	21. 6. 3	51.22	16.39.42	57.57	3.21.25	59.59	6
25	21. 4.38	51.41	16.21.50	58. 5	2.48. 5	59.59	5
26	21. 2.48	52. 0	16. 3.25	58.13	2.14.35	59.59	4
27	21. 0.28	52.18	15.44. 0	58.21	1.41. 0	59.59	[illegible]
28	20.57.38	52.36	15.23.45	58.29	1. 7.21	60. 0	[illegible]
29	20.54.21	52.53	15. 2.4	58.36	0.33.41	60. 0	[illegible]
30	20.50.38	53.1[illegible]	14.40.44	58.4[illegible]	0. 0. 0	60. 0	[illegible]
	VIII		VII,		VI.		

Tab. Declinat. Mercur.

Si	0.	I.	II.	III.	IV.	V.	gna
G.	o. '	o. '	o. '	o. '	o. '	o. '	G.
1	1. 34	1.23	0.50	0. 2	1.19	2.46	29
2	1. 34	1.23	0.49	0. 5	1.21	2.49	28
3	1. 34	1.22	0.48	0. 7	1.25	2.51	27
4	1. 34	1.21	0.47	0. 9	1.28	2.53	26
5	1. 34	1.20	0.45	0.11	1.30	2.56	25
6	1. 33	1.19	0.44	0.13	1.33	2.58	34
7	1. 33	1.18	0.42	0.15	1.36	3. 0	23
8	1. 33	1.17	0.40	0.18	1.38	3. 3	22
9	1. 33	1.16	0.39	0.20	1.41	3. 6	21
10	1. 33	1.15	0.37	0.23	1.44	3. 8	20
11	1. 33	1.15	0.36	0.25	1.47	3.11	19
12	1. 33	1.14	0.34	0.27	1.50	3.13	18
13	1. 32	1.13	0.32	0.30	1.53	3.15	17
14	1. 32	1.12	0.31	0.32	1.56	3.16	16
15	1. 32	1.11	0.29	0.35	1.59	3.18	15
16	1. 32	1.10	0.27	0.37	2. 2	3.19	14
17	1. 31	1. 9	0.26	0.40	2. 5	3.21	13
18	1. 31	1. 7	0.24	0.42	2. 8	3.23	12
19	1. 31	1. 6	0.22	0.45	2.11	3.24	11
20	1. 30	1. 5	0.20	0.48	2.14	3.25	10
21	1. 30	1. 4	0.19	0.51	2.17	3.26	9
22	1. 29	1. 3	0.17	0.53	2.20	3.27	8
23	1. 29	1. 2	0.15	0.56	2.23	3.28	7
24	1. 28	1. 0	0.13	0.59	2.26	3.29	6
25	1. 28	0.59	0.11	1. 2	2.29	3.30	5
26	1. 27	0.58	0. 9	1. 5	2.31	3.31	4
27	1. 26	0.57	0. 7	1. 8	2.34	3.32	3
28	1. 26	0.55	0. 4	1.10	2.37	3.32	2
29	1. 25	0.53	0. 2	1.13	2.40	3.33	1
30	1. 24	0.52	0. 0	1.16	2.43	3.33	0
	XI.	X.	IX.	VIII.	VII	VI.	

Tabula Reflexionum Mercurii

	AUSTRALIS						BOREALIS				
0	1	2	3	4	5	6	7	8	9	10	11
/	o. /	o. /	o. /	o. /	o. /	o. /	o. /	o. /	o. /	o. /	/
2	0.43	1.17	1.43	1.46	1.13	0. 4	1.38	2.16	2. 9	1.37	51
3	0.44	1.18	1.43	1.45	1.11	0. 8	1.40	2.17	2. 9	1.35	49
4	0.45	1.19	1 44	1.44	1. 9	0.11	1.42	2.17	2. 8	1.34	48
5	0.47	1.20	1.44	1.44	1. 7	0.15	1.44	2.17	2. 7	1.33	46
7	0.48	1.21	1.44	1.43	1. 5	0.19	1.46	2.17	2. 6	1.31	45
8	0.49	1.22	1.45	1.42	1. 3	0.22	1.48	2.18	2. 5	1.30	43
10	0.50	1.23	1.45	1.41	1. 1	0.26	1.50	2.18	2. 4	1.28	41
12	0.52	1.24	1.45	1.40	0.59	0.29	1.52	2.18	2. 3	1.27	40
13	0.53	1.25	1.46	1.39	0.57	0.33	1.54	2.18	2. 2	1.25	38
15	0.54	1.26	1.46	1.38	0.55	0.37	1.55	2.18	2. 1	1.24	36
16	0.55	1.27	1.46	1.37	0.53	0.41	1.57	2.18	2. 0	1.42	34
17	0.56	1.28	1.47	1.36	0.50	0.45	1.58	2.18	1.59	1.21	32
19	0.57	1.29	1.47	1.35	0.48	0.48	1.59	2.18	1.58	1.19	31
21	0.59	1.30	1.47	1.34	0.46	0.52	2. 0	2.18	1.57	1.18	29
22	1. 0	1.30	1.47	1.33	0.43	0.55	2. 1	2.17	1.56	1.16	27
23	1. 1	1.31	1.48	1.32	0.41	0.58	2. 3	2.17	1.55	1.15	25
24	1. 2	1.32	1.48	1.31	0.38	1. 1	2. 4	2.17	1.54	1.13	23
25	1. 3	1.33	1.48	1.30	0.35	1. 4	2. 6	2.17	1.53	1.12	21
27	1. 4	1.34	1.48	1.29	0.33	1. 7	2. 7	2.16	1.52	1.10	19
28	1. 5	1.35	1.48	1.28	0.30	1.10	2. 8	2.16	1.50	1. 9	18
30	1. 6	1.35	1.48	1.27	0.27	1.13	2. 9	2.16	1.49	1. 7	16
31	1. 8	1.36	1.48	1.26	0.24	1.16	2.10	2.15	1.48	1. 6	14
32	1. 9	1.37	1.48	1.25	0.21	1.19	2.11	2.15	1.47	1. 4	12
33	1.10	1.38	1.48	1.24	0.18	1.21	2.12	2.14	1.46	1. 3	10
35	1.11	1.39	1.47	1.23	0.15	1.24	2.13	2.14	1.45	1. 2	8
36	1.12	1.39	1.47	1.21	0.12	1.26	2.14	2.13	1.44	1. 0	6
37	1.13	1.40	1.47	1.20	0. 9	1.29	2.15	2.12	1.42	0.58	5
38	1.14	1.41	1.47	1.18	0. 6	1.31	2.15	2.11	1.41	0.56	3
39	1.15	1.41	1.46	1.17	0. 3	1.34	2.16	2.10	1.40	0.55	2
41	1.16	1.42	1.46	1.15	0. 0	1.37	2.16	2.10	1.38	0.53	0

Tabula Reflexionum Mercurii

		BOREALIS						AUSTRALIS				
Si-	0	1	2	3	4	5	6	7	8	9	10	11
G.	'	o. '	o. '	o. '	o. '	o. '	o. '	o. '	o. '	o. '	o. '	''
1	2	0.47	1.25	1.55	2. 0	1.26	0. 5	1.55	2.35	2.25	1.46	56
2	3	0.49	1.27	1.55	1.59	1.24	0. 9	1.57	2.35	2.24	1.45	54
3	4	0.50	1.28	1.56	1.59	1.21	0.13	1.59	2.35	2.23	1.43	52
4	5	0.51	1.29	1.56	1.59	1.19	0.17	2. 2	2.35	2.22	1.42	51
5	7	0.53	1.30	1.57	1.58	1.17	0.21	2. 4	2.36	2.21	1.40	49
6	9	0.54	1.31	1.57	1.57	1.15	0.25	2. 6	2.36	2.20	1.39	47
7	11	0.55	1.33	1.57	1.57	1.12	0.30	2. 8	2.36	2.19	1.37	45
8	12	0.57	1.34	1.57	1.56	1. 9	0.34	2.10	2.36	2.18	1.35	43
9	14	0.58	1.35	1.58	1.55	1. 6	0.38	2.12	2.36	2.17	1.33	41
10	15	0.59	1.36	1.58	1.55	1. 4	0.42	2.14	2.36	2.16	1.32	39
11	17	1. 0	1.37	1.59	1.54	1. 2	0.46	2.16	2.36	2.14	1.30	37
12	18	1. 1	1.39	1.59	1.53	1. 0	0.51	2.17	2.36	2.13	1.28	35
13	20	1. 3	1.40	2. 0	1.52	0.57	0.55	2.18	2.35	2.12	1.27	33
14	21	1. 5	1.41	2. 0	1.51	0.53	0.59	2.19	2.35	2.11	1.25	31
15	23	1. 6	1.42	2. 0	1.50	0.50	1. 3	2.21	2.35	2.10	1.23	29
16	24	1. 7	1.43	2. 0	1.49	0.47	1. 7	2.23	2.34	2. 9	1.22	27
17	26	1. 9	1.44	2. 0	1.47	0.44	1.11	2.24	2.34	2. 8	1.20	25
18	27	1.10	1.45	2. 1	1.47	0.40	1.15	2.26	2.34	2. 6	1.18	23
19	29	1.11	1.45	2. 1	1.46	0.37	1.18	2.27	2.33	2. 5	1.16	21
20	31	1.13	1.46	2. 1	1.45	0.34	1.22	2.28	2.33	2. 3	1.15	19
21	32	1.14	1.47	2. 1	1.44	0.31	1.25	2.28	2.32	2. 2	1.13	17
22	34	1.15	1.48	2. 1	1.42	0.28	1.29	2.29	2.31	2. 0	1.12	15
23	36	1.16	1.49	2. 1	1.41	0.24	1.32	2.30	2.30	1.59	1.10	13
24	37	1.17	1.50	2. 1	1.39	0.20	1.35	2.31	2.30	1.57	1. 8	11
25	39	1.18	1.51	2. 1	1.37	0.16	1.38	2.32	2.29	1.56	1. 7	9
26	41	1.19	1.51	2. 1	1.35	0.13	1.41	2.33	2.28	1.54	1. 5	7
27	42	1.20	1.52	2. 0	1.33	0.10	1.44	2.33	2.28	1.52	1. 3	5
28	43	1.21	1.53	2. 0	1.31	0. 7	1.47	2.34	2.27	1.51	1. 2	3
29	45	1.22	1.54	2. 0	1.29	0. 4	1.50	2.35	2.26	1.49	1. 0	2
30	46	1.24	1.54	2. 0	1.27	0. 0	1.53	2.35	2.26	1.48	0.58	0

FINIS.

Tab. pro inveniendis denominationibus in ♀ & ☿ tam Declinationis qvam Reflexionis in p. 544. 545. 551. 552.

Pro ♀ Declin.

Sc. Pr. 0. 1. 2. 3. 4. 5.	Decl. 0. 1. 2. 9. 10. 11. B. Decl. 3. 4. 5. 6. 7. 8. A.
Sc. Pr. 6. 7. 8. 9. 10. 11.	Decl. 0. 1. 2. 9. 10. 11. A. Decl. 3. 4. 5. 6. 7. 8. B.

Pro ♀ Refl.

Sc. Pr. 0. 1. 2. 9. 10. 11.	Refl. 0. 1. 2. 3. 4. 5. B. Refl. 6. 7. 8. 9. 10. 11. A.
Sc. Pr. 3. 4. 5. 6. 7. 8.	Refl. 0. 1. 2. 3. 4. 5. A. Refl. 6. 7. 8. 9. 10. 11. B.

Pro ☿ Decl.

Sc. Pr. 0. 1. 2. 3. 4. 5.	Decl. 0. 1. 2. 9. 10. 11. A. Decl. 3. 4. 5. 6. 7. 8. B.
Sc. Pr. 6. 7. 8. 9. 10. 11.	Decl. 0. 1. 2. 9. 10. 11. B. Decl. 3. 4. 5. 6. 7. 8. A.

Pro ☿ Refl.

Sc. Pr. 0. 1. 2. 9. 10. 11.	Refl. 0. 1. 2. 3. 4. 5. A. Refl. 6. 7. 8. 9. 10. 11. B.
Sc. Pr. 3. 4. 5. 6. 7. 8.	Refl. 0. 1. 2. 3. 4. 5. B. Refl. 6. 7. 8. 9. 10. 11. A.

Tab. Proſtaph. Orbis Annui Ven. Signi Sup. A.

Signa	0		I.		II.		Signa
	Proſt.	*Scrup.*	*Proſt.*	*Scrup.*	*Proſt.*	*Scrup.*	*Grad.*
G.	o. l. ll	l. ll	o. l. ll	l. ll	o. l. ll	l. ll	
1	0.24.57	0. 0	12.49. 8	3.47	24.49.11	14. 0	29
2	0.49.54	0. 0	13.13.40	4. 1	25.12.23	14.25	28
3	1.14.50	0. 1	13.38.11	4.16	25.35.31	14.51	27
4	1.39.45	0. 2	14. 2.41	4.32	25.58.35	15.17	26
5	2. 4.40	0. 3	14.27. 9	4.48	26.21.35	15.44	25
6	2.29.35	0. 5	14.51.35	5. 4	26.44.31	16.11	24
7	2.54.30	0. 8	15.15.59	5.21	27. 7.22	16.39	23
8	3.19.24	0.11	15.40.21	5.39	27.30. 8	17. 7	22
9	3.44.18	0.15	16. 4.41	5.57	27.52.49	17.35	21
10	4. 9.12	0.20	16.28.59	6.16	28.15.25	18. 3	20
11	4.34. 6	0.25	16.53.15	6.35	28.37.56	18.31	19
12	4.58.59	0.31	17.17.29	6.54	29. 0.21	19. 0	18
13	5.23.52	0.37	17.41.41	7.13	29.22.41	19.29	17
14	5.48.44	0.44	18. 5.50	7.33	29.44.55	19.58	16
15	6.13.36	0.52	18.29.57	7.53	30. 7. 3	20.27	15
16	6.38.27	1. 0	18.54. 2	8.13	30.29. 5	20.56	14
17	7. 3.17	1. 8	19.18. 4	8.34	30.51. 0	21.26	13
18	7.28. 6	1.17	19.42. 3	8.55	31.12.49	21.56	12
19	7.52.54	1.26	20. 5.59	9.17	31.34.32	22.26	11
20	8.17.41	1.36	20.29.53	9.39	31.56. 9	22.56	10
21	8.42.28	1.46	20.53.44	10. 1	32.17.39	23.26	9
22	9. 7.14	1.57	21.17.32	10.24	32.39. 1	23.56	8
23	9.31.59	2. 8	21.41.17	10.47	33. 0.15	24.26	7
24	9.56.43	2.19	22. 4.59	11.10	33.21.20	24.57	6
25	10.21.26	2.30	22.28.38	11.33	33.42.17	25.28	5
26	10.46. 7	2.42	22.52.13	11.57	34. 3. 6	25.59	4
27	11.10.46	2.54	23.15.45	12.21	34.23.46	26.30	3
28	11.35.24	3. 7	23.39.13	12.45	34.44.18	27. 1	2
29	12. 0. 0	3.20	24. 2.36	13.10	35. 4.42	27.32	1
30	12.24.35	3.33	24.25.55	13.35	35.24.57	28. 3	0
	XI.		X		IX.		

TABULA Angulorum Horariorum ſ. Menſuræ arcus Horizontalis à Meridie ad ſingulas horas: & Muralis in iſtius complemento, ad Elev. pol. ſingulorum graduum a 30. ad 70.

Elev. poli	Hor.	Hor.	Hor.	Hor.	Hor.	Hor.	Horiz.
	11. 1.	10. 2.	9. 3.	8. 4.	7. 5.	6. 6.	
	o. '	o. '	o. '	o. '	o. '	o. '	
30	7. 38	16. 6	26. 34.	40. 54.	61. 49.	90. 0.	60
31	7. 51	16. 34	27. 14.	41. 42.	62. 28	90. 0.	59
32	8. 4	17. 1	27. 53.	42. 30.	63. 6.	90. 0.	58
33	8. 17	17. 27	28. 34.	43. 17.	63. 45.	90. 0.	57
34	8. 30	17. 54	29. 13.	44. 5.	64. 42.	90. 0.	56
35	8. 43	18. 20	29. 49.	44. 46	64. 56.	90. 0.	55
36	8. 56	18. 45	30. 25.	45. 28	65. 27.	90. 0.	54
37	9. 9	19. 9	31. 1.	46. 9.	65. 58.	90. 0.	53
38	9. 22	19. 34	31. 37.	46. 50.	66. 29.	90. 0.	52
39	9. 33	19. 57	32. 9.	47. 26.	66. 55.	90. 0.	51
40	9. 45	20. 20	32. 42.	48. 1.	67. 20.	90. 0.	50
41	9. 56	20. 43	33. 14.	48. 37.	67. 45.	90. 0.	49
42	10. 9	21. 7	33. 47.	49. 13.	68. 11.	90. 0.	48
43	10. 21	21. 29	34. 17.	49. 44	68. 32.	90. 0.	47
44	10. 32	21. 50	34. 46.	50. 14.	68. 53.	90. 0.	46
45	10. 43	22. 12	35. 15.	50. 45.	69. 14.	90. 0.	45
46	10. 55	22. 33	35. 44.	51. 16.	69. 37.	90. 0.	44
47	11. 7	22. 53	36. 10.	51. 43.	69. 53.	90. 0.	43
48	11. 19	23. 12	36. 35.	52. 9.	70. 10.	90. 0.	42
49	11. 31	23. 32	37. 1.	52. 35.	70. 28.	90. 0.	41

TABULA Angulorum Horariorum ſ. Menſuræ arcus Horizontalis à Meridie ad Singulas horas, & Muralis in iſtius complemento, ad Elev. pol. ſingulorum graduum à 30. ad 70.

Elev. poli	Hor. 11. 1.		Hor. 10. 2.		Hor. 9. 3.		Hor. 8. 4.		Hor. 7. 5.		Hor. 6. 6		Horiz.
	o.	'	o.	'	o.	'	o.	'	o	'	o	'	
50	11.	41	23.	51	37.	27.	53.	1.	70.	43.	90.	0.	40
51	11.	50	24.	9	37.	50.	53.	24.	70.	58.	90.	0.	39
52	12.	0	24.	26	38.	13.	53.	46.	71.	12.	90.	0.	38
53	12.	10	24.	44	38.	36.	54.	8.	71.	27.	90.	0.	37
54	12.	20	25.	2	38.	59.	54.	30.	71.	41.	90.	0.	36
55	12.	29	25.	18	39.	18.	54.	50.	71.	53.	90.	0.	35
56	12.	38	25.	33	39.	38.	55.	9.	72.	4.	90.	0.	34
57	12.	46	25.	49	39.	58.	55.	28.	72.	16.	90.	0.	33
58	12.	54	26.	5	40.	18.	55.	46.	72.	27.	90.	0.	32
59	13.	2	26.	19	40.	36.	56.	1.	72.	38.	90.	0.	31
60	13.	10	26.	33	40.	53.	56.	18.	72.	47.	90.	0.	30
61	13.	17	26.	47	41.	10.	56.	33.	72.	57.	90.	0.	29
62	13.	24	27.	1	41.	27.	56.	49.	73.	7.	90.	0.	28
63	13.	30	27.	13	41.	47.	57.	3.	73.	16.	90.	0.	27
64	13.	36	27.	25	41.	56.	57.	16.	73.	24.	90.	0.	26
65	13.	42	27.	37	42.	11.	57.	30.	73.	32.	90.	0.	25
66	13.	47	27.	49	42.	25.	57.	43.	73.	40.	90.	0.	24
67	13.	52	27.	59	42.	37.	57.	53.	73.	47.	90.	0.	23
68	13.	57	28.	9	42.	49.	58.	2.	73.	53.	90.	0.	22
69	14.	7	28.	19	43.	1.	58.	10.	73.	59.	90.	0.	21
70	14.	7	28.	29	43.	13.	58.	16.	74.	5.	90.	0.	20

Tab. Oſtendens arcus inter Æqvatorem & Horizontem interceptos, ad Elevationes poli pro Horizontali in dextro, pro murali in ſiniſtro latere appoſitos.]

Elev. poli	Hor. 12.	Hor. 11. 1.	Hor. 10. 2.	Hor. 9. 3.	Hor. 8. 4.	Hor. 7. 5.	Hor. 6. 6	Elev. poli
30	60. 0.	59. 8	56. 19.	50. 46.	40.53.	24. 9.	0. 0.	60
34	56. 0.	55. 5.	52. 6	46. 21.	36.33.	20.59.	0. 0.	56
38	52. 0.	51. 2.	47. 56.	43. 59.	32.37.	18.19.	0. 0.	52
42	48. 0.	46. 2.	43. 54.	38. 11.	29. 3.	16. 2.	0. 0.	48
46	44. 0.	43. 0	39. 54.	34. 20.	25.46.	14. 4.	0. 0.	44
50	40. 0.	39. 3.	36. 0.	31. 55.	22.46.	12.15.	0. 0.	40
54	36. 0.	35. 3.	32. 11.	27. 12.	20.18.	10.39.	0. 0.	36
58	32. 0.	33. 22.	28. 25.	23. 50.	17.21.	9.14.	0. 0.	32
62	28. 0.	31. 7	24. 43.	20. 36.	14.53.	7.50.	0. 0.	28
66	24. 0.	27. 11.	21. 45.	17. 28.	12.33.	6.34.	0. 0.	24
70	20. 0.	23. 16.	16. 55.	14. 26.	10.19.	5.23.	0. 0.	20

Tab. Arcuum Æqvatoris pro Planis Verticalibus Declinantibus, Elevatione poli in fronte, Declinatione in margine.

Decl.	30.	40.	50.	60.	70.
1	88. 0.	88.27.	88.42.	88.51.	88.56.
5	80. 5.	82.16.	83.29.	84.15.	84.41.
10	70.35.	74.40.	77. 2.	78.30.	79.23.
15	61.16.	67.22.	70.43.	72.49.	74. 5.
20	53.57.	60.28.	64.35.	67.12.	68.50.
25	47. 9.	54. 2.	58.40.	61.42.	63.37.
30	40.54.	48. 5.	54. 0.	56.18.	58.26.
35	35.32.	42.33.	47.36.	51. 3.	53.18.
40	30.47.	37.27.	42.24.	45.55.	48.14.
45	26.35.	32.46.	37.27.	40.54.	43.13.
50	22.45.	28.20.	32.44.	36. 0.	38.16.
55	19.19.	24.14.	28.12.	31.14.	33.21.
60	16. 6.	20.22.	23.51.	26.33.	28.29.
65	13. 7.	16.41.	19.39.	22. 0.	23.40.
70	10.18.	13.10.	15.35.	17.30.	18.53.
75	7.38.	9.46.	11.36.	13. 4.	14. 8.
80	5. 2.	6.28.	7.42.	8.41.	8.25.
85	2.30.	3.13.	3.50.	4.20.	4.42.
89	1.30.	1.56.	2.18.	2.36.	2.49.
89	0.30.	0.38.	0.46.	0.52.	0.58.

Si	0	I.	II.	III.	IV.	V.	gna
G.	l. ll	o. l. ll	o. l. ll	o. l. ll	o. l. ll	o. l. ll	G.
1	1.20	0.42.14	1.25. 9	2.10.16	2.48. 4	2.30.25	29
2	2.40	0.43.38	1.26.38	2.11.45	2.48.49	2.27.48	28
3	4. 1	0.45. 2	1.28. 7	2.13.13	2.49.30	2.25. 3	27
4	5.22	0.46.26	1.29.37	2.14.41	2.50. 8	2.22.15	26
5	6.43	0.47.50	1.31. 7	2.16. 9	2.50.42	2.19.24	25
6	8. 4	0.49.14	1.32.37	2.17.37	2.51.12	2.16.30	24
7	9.25	0.50.38	1.34. 7	2.19. 5	2.51.37	2.13.26	23
8	10.46	0.52. 2	1.35.37	2.20.33	2.51.59	2.10.11	22
9	12. 8	0.53.26	1.37. 7	2.22. 0	2.52.18	2. 6.40	21
10	13.30	0.54.50	1.38.37	2.23.26	2.52.36	2. 2.53	20
11	14.51	0.56.15	1.40. 8	2.24.51	2.52.52	1.58.43	19
12	16.12	0.57.40	1.41.39	2.26.15	2.53. 0	1.54. 3	18
13	17.32	0.59. 5	1.43.10	2.27.38	2.52.53	1.48.53	17
14	18.52	1. 0.30	1.44.41	2.28.59	2.52.41	1.43.13	16
15	20.13	1. 1.55	1.46.12	2.30.19	2.52.22	1.37. 8	15
16	21.34	1. 3.21	1.47.42	2.31.38	2.51.57	1.30.53	14
17	22.55	1. 4.47	1.49.12	2.32.56	2.51.26	1.24.33	13
18	24.16	1. 6.13	1.50.42	2.34.13	2.50.47	1.18.10	12
19	25.38	1. 7.39	1.52.12	2.35.29	2.50. 3	1.11.46	11
20	27. 0	1. 9. 5	1.53.42	2.36.45	2.49.11	1. 5.21	10
21	28.22	1.10.32	1.55.12	2.38. 0	2.48. 8	0.58.54	9
22	29.44	1.11.59	1.56.42	2.39.13	2.46.56	0.52.25	8
23	31. 7	1.13.26	1.58.12	2.40.23	2.45.38	0.45.55	7
24	32.30	1.14.53	1.59.43	2.41.31	2.44.14	0.39.24	6
25	33.53	1.16.20	2. 1.14	2.42.36	2.42.43	0.32.52	5
26	35.16	1.17.48	2. 2.45	2.43.38	2.41. 5	0.26.19	4
27	36.39	1.19.16	2. 4.16	2.44.37	2.39.17	0.19.45	3
28	38. 2	1.20.44	2. 5.46	2.45.33	2.37.19	0.13.11	2
29	39.26	1.22.12	2. 7.17	2.46.26	2.35.11	0. 6.36	1
30	40.50	1.23.40	2. 8.47	2.47.16	2.32.53	0. 0. 0	0
Si	XI.	X.	IX.	VIII.	VII	VI.	gna

TAB. Declinationis Magneticæ

Loca	Obſervatores		Declinatio °	′
Lovanium	Jo. Ciermannus	G	11	0
Lugdunum Galliæ	Kircherus	G	4	30
Lipſiæ	Kircher			
Madritum	Barrus	G	5	0
Mediolanum	Moneta	G	5	7
Maſſilia	Kircherus	G	2	40
Melita Inſ.	Kircherus		0	0
Meſſana	Kircherus		0	0
Moguntia	Henr. Marco		6	7
Monaſterium	Henr. Moders	G	5	48
Mons Peſſulanus	F. B. Zuph	M	0	30
Neapoli	Georg. Hartman.	G	8	0
Norimberga	Conr. Balth.	M	2	30
Olmitz Moraviæ	Burdinus	G	3	30
Pariſii	Blancanus	G	6	0
Parma	Guill. Degnier	G	5	30
Praga	Moretus	G	5	30
Roma	Creſcentius	G	8	0
	Clavius	G	6	0
	Blancanus	G	6	0
	Jo. Martinus	G	2	50
Rothomagum	Kircherus	G	2	45
Treviri	Grandamicus	G	2	30
Veſontio	Kircherus	G	2	0
Vienna Auſtriæ	Kircherus		5	0
Wittebergæ	And. Cobau.		0	0

Uni Gradui Peripheriæ terreſtris reſpondent milliaria

Alſatica	15¾	Livonica	18
Anglicana *parva*	60	Mediolanenſia	66
communia	50	Moravica	12
maiora	27½	Moſcovitica	80
Auſtriaca	8	Mutinenſia	66
Bavarica	13	Neapolitana	66
Belgica	20	Norimbergica	12
Bohemica	17	Oſtrogotica	12
Bononienſia	66	Parmenſia	66
Botnica	22	Polonica	10
Catalaunica	20½	Prutenica	13
Danica	7	Rhætica	8
Florentina	64	Romana	72
Fionica	18	Ruſſica	80
Gallica	20	Scotica	50
Germanica *parva*	18	Sicula	62½
Communia	15	Sileſica	14½
maiora	12	Sundermannica	12
Hibernica	45½	Svecica	7½
Hiſpanica	17	Svevica	8
Hollandica	16	Umbrica	66
Hungarica	14	Uplandica	12
Italica communia	60	Tridentina	63
Lituanica *parva*	20	Weſtrogoth.	12
communia	17½		
maiora	15		

R	Qua.	R	Qua.	R	Qua.	R	Quad.
1	1	31	961.	61	3721.	91	8281
2	4	32	1024.	62	3844.	92	8464
3	9	33	1089.	63	3969.	93	8649
4	16	34	1156.	64	4096.	94	8836
5	25	35	2225.	65	4225.	95	9025
6	36	36	1296.	66	4356.	96	9216
7	49	37	1369.	67	4489.	97	9409
8	64	38	1444.	68	4624.	98	9604
9	81	39	1521.	69	4761.	99	9801
10	100	40	1600.	70	4900.	100	10000
11	121	41	1681.	71	5041.	101	10201
12	144	42	1764.	72	5184.	102	10404
13	169	43	1849.	73	5329.	103	10609
14	196	44	1936.	74	5476.	104	10816
15	225	45	2925.	75	5625.	105	11025
16	256	46	2116.	76	5776.	106	11236
17	289	47	2209.	77	5929.	107	11449
18	324	48	2304.	78	6084.	108	11664
19	361	49	2401.	79	6421.	109	11881
20	400	50	2500.	80	6400.	110	12100
21	441	51	2601.	81	6561.	111	12321
22	484	52	2704.	82	6724.	112	12544
23	529	53	2801.	83	6889.	113	12769
24	576	54	2916.	84	7056.	114	12996
25	625	55	3025.	85	7225.	115	13225
26	676	56	3136.	86	7396.	116	13456
27	729	57	3249.	87	7569.	117	13689
28	784	58	3364.	88	7744.	118	13924
29	841	59	3481.	89	7921.	119	14161
30	900	60	4600.	90	8100.	120	14400

R	*Quadr*	*R*	*Quadr*	*R*	*Quadr*	*R.*	*Quadr*
121	14641	151	22801	181	32761	211	44521
122	14884	152	23104	182	33124	212	44944
123	15129	153	23409	183	33489	213	45369
124	15376	154	23716	184	33856	214	45796
125	15625	155	24025	185	34225	215	46225
126	15876	156	24336	186	34596	216	46656
127	16129	157	24649	187	34969	217	47089
128	16384	158	24964	188	35124	218	47524
129	16641	159	25281	189	35721	219	47961
130	16900	160	25600	190	36100	220	48400
131	17164	161	25921	191	36481	221	48841
132	17424	162	26244	192	36864	222	49284
133	17689	163	26569	193	37249	223	49729
134	17956	164	26896	194	37636	224	50176
135	18225	165	27125	195	38025	225	50625
136	18496	166	27526	196	38416	226	51076
137	18769	167	27889	197	38809	227	51529
138	19044	168	28224	198	39224	228	51984
139	19321	169	28561	199	39601	229	52441
140	19600	170	28900	200	40000	230	52900
141	19881	171	29241	201	40401	231	53361
142	20169	172	29584	202	40804	232	53824
143	20449	173	29929	203	41209	233	54289
144	20736	174	30276	204	41616	234	54756
145	21026	175	30625	205	42225	235	55225
146	21306	176	30976	206	42436	236	55696
147	21609	177	31329	207	42849	237	56169
148	21904	178	31684	208	43264	238	56644
149	22200	179	32041	209	43681	239	57121
150	22500	180	32400	210	44100	240	57600

R	Cub.	R	Cub.	R	Cub.
1	1	31	29791	61	226981
2	8	32	32768	62	238328
3	27	33	35937	63	250047
4	64	34	39304	64	262144
5	125	35	42875	65	274625
6	216	36	46656	66	287496
7	343	37	50653	67	300763
8	512	38	54[illegible]2	68	314432
9	729	39	59319	69	328509
10	1000	40	64000	70	343000
11	1331	41	68921	71	357911
12	1728	42	74088	72	373248
13	2197	43	79577	73	389017
14	2744	44	85184	74	405224
15	3374	45	91125	75	421875
16	4096	46	97336	76	438976
17	4913	47	103823	77	456533
18	5832	48	110592	78	474552
19	6859	49	117649	79	493039
20	8000	50	125000	80	512000
21	9261	51	132651	81	531441
22	10648	52	140608	82	551368
23	12167	53	148877	83	571787
24	13824	54	157464	84	592704
25	15625	55	166375	85	614125
26	17576	56	175616	86	636056
27	19686	57	185193	87	658503
28	21952	58	195112	88	681472
29	24389	59	205379	89	704969
30	27000	60	216000	90	729000

VADE MECUM ARCHITECTONICUM

Comprehendens

TABULAS ARCHITECTURÆ CIVILIS atqve MILITARIS.

Easqve maxime neceſſarias, novo calculo atqve methodo hactenus uſitatis ordine facilitate atqve perfectione notabiliter præſtanti concinnatas, & ad omnium uſum accommodatas,

ANNEXIS IN CALCE LIBELLI

1. Catalogo Auctorum abſolutiſſimo,
2. Tabula libellatica,
3. Tabula angulorum ope ſcalæ geometricæ tantum menſurandorum,
4. Tabulis linearum circino proportionatorio inſcribendarum.

IN USUM

NON MODO DISCENTIUM, SED IPSA ETIAM PRAXI OCCUPATORUM PROSTAT

Opera & ſtudio

LEONH. CHR. STURM,

Math. Prof. Publ. in Acad. Ill. Wolffenb.

Amſtelodami, ANNO M cIɔ Icc.

Tab. Arcuum Æqvatoris pro Planis Verticalibus Declinantibus, Elevatione poli in fronte, Declinatione in margine.

Decl.	30.	40.	50.	60.	70.
1	88. 0.	88.27.	88.42.	88.51.	88. 56.
5	80. 5.	82.16.	83.29.	84.15.	84. 41.
10	70.35.	74.40.	77. 2.	78.30.	79. 23.
15	61.16.	67.22.	70.43.	72.49.	74. 5.
20	53.57.	60.28.	64.35.	67.12.	68. 50.
25	47. 0.	54. 2.	58.40.	61.42.	63. 37.
30	40.54.	48. 5.	54. 0.	56.18.	58. 26.
35	35.32.	42.33.	47.36.	51. 3.	53. 18.
40	30.47.	37.27.	42.24.	45.55.	48. 14.
45	26.35.	32.46.	37.27.	40.54.	43. 13.
50	22.45.	28.20.	32.44.	36. 0.	38. 16.
55	19.19.	24.14.	28.12.	31.14.	33. 21.
60	16. 6.	20.22.	23.51.	26.33.	28. 29.
65	13. 7.	16.41.	19.39.	22. 0.	23. 40.
70	10.18.	13.10.	15.35.	17.30.	18. 53.
75	7.38.	9.46.	11.36.	13. 4.	14. 8.
80	5. 2.	6.28.	7.42.	8.41.	8. 25.
85	2.30.	3.13.	3.50.	4.20.	4. 42.
89	1.30.	1.56.	2.18.	2.36.	2. 49.
89	0.30.	0.38.	0.46.	0.52.	0. 58.

Tabula Declinationis acus magneticæ

Loca	Obſervatores		Declinatio	
			o	'
Alepi Syriæ	Jo. Amiens	G	3	0
Alexandria Ægypti	Jo. Gravius	M	5	45
Aqua Sextiæ	Doroſſeus	G	9	0
	Galterius	G	7	0
	Gaſſendus	G	4	45
Arelate	Kircherus	G	3	30
Aſchaffenburg	Franc. Rayen		3	30
Avenio	Petr. de S. Eligio		4	0
Bononia Italiæ	Co. Manzinus	G	3	0
	Kircherus	M	1	20
Colonia Agrippina	Jo. Grotæus	G	5	52
Dola Burgundiæ	Vinc. Leotaud.	G	1	14
Ebersberga Bavariæ	Mich. Stand.	G	4	2[illegible]
Ebora Luſitaniæ	P. Martinus	G	6	[illegible]
Ferraria	P. Cabæus	G	5	[illegible]
Florentiæ	Niceron.	G	3	3[illegible]
Fulda	Kircherus	G	4	3[illegible]
Gandavum	Greg. S. Vinc.	G	8	3[illegible]
Gedanum	Hevelius			
Goa Indiæ	Jul. Alenus	M	16	[illegible]
Græcia Stiriæ	Jac. Durand.	G	2	[illegible]
Genua Liguriæ	Kircherus	G	5	[illegible]
	P. Martinus	G	5	[illegible]
Herbipolis	Kircherus	G	5	1[illegible]
Heidelbergæ	Kircherus	G	6	[illegible]
Jena Thuringiæ	Weigelius			
Ingolſtadium	Jac. Vinc.	G	4	3[illegible]
Lauretum Italiæ	Kircherus	M	4	[illegible]
Liburnum	Dudleus	G	3	[illegible]

TAB. Declinationis Magneticæ

Loca	*Obſervatores*		*Declinatio*	
			o	'
Lovanium	*Jo. Ciermannus*	G	11	0
Lugdunum Galliæ	*Kircherus*	G	4	30
Lipſia	*Kirchen*			
Madritum	*Barrus*	G	5	0
Mediolanum	*Moneta*	G	5	7
Maſſilia	*Kircherus*	G	2	40
Melita Inſ.	*Kircherus*		0	0
Meſſana	*Kircherus*		0	0
Moguntia	*Henr. Marco*		6	7
Monaſterium	*Henr. Moders*	G	5	48
Mons Peſſulanus	*Fr. B. Zuph*	M	0	30
Neapoli	*Georg. Hartman.*	G	8	0
Norimberga	*Conr. Balth.*	M	2	30
Olmitz Moraviæ	*Burdinus*	G	3	30
Pariſii	*Blancanus*	G	6	0
Parma	*Gull. Degnier*	G	5	30
Praga	*Moretus*	G	5	30
Roma	*Creſcentius*	G	8	0
	Clavius	G	6	0
	Blancanus	G	6	0
	Jo. Martinus	G	2	50
Rothomagum	*Kircherus*	G	2	45
Treviri	*Grandamicus*	G	2	30
Veſontio	*Kircherus*	G	2	0
Vienna Auſtriæ	*Kircherus*		5	0
Witteberga	*And. Cobau.*		0	0

Uni Gradui Peripheriæ terreſtris reſpondent milliaria

Alſatica	15¾	Livonica	18
Anglicana *parva*	60	Mediolanenſia	66
communia	50	Moravica	12
maiora	27½	Moſcovitica	80
Auſtriaca	8	Mutinenſia	66
Bavarica	13	Neapolitana	66
Belgica	20	Norimbergica	12
Bohemica	17	Oſtrogotica	12
Bononienſia	66	Parmenſia	66
Botnica	22	Polonica	10
Catalaunica	20½	Prutenica	13
Danica	7	Rhætica	8
Florentina	64	Romana	72
Fionica	18	Ruſtica	80
Gallica	20	Scotica	50
Germanica *parva*	18	Sicula	62
Communia	15	Sileſica	14
maiora	12	Sundermannica	12
Hibernica	45½	Svecica	7
Hiſpanica	17	Svevica	8
Hollandica	16	Umbrica	66
Hungarica	14	Uplandica	12
Italica communia	60	Tridentina	63
Lituanica *parva*	20	Weſtrogoth.	12
communia	17½		
maiora	15		

R	Qua	R	Qua.	R	Qua	R	Quad.
1	1	31	961.	61	3721.	91	8281
2	4	32	1024.	62	3844.	92	8464
3	9	33	1089.	63	3969.	93	8649
4	16	34	1156.	64	4096.	94	8836
5	25	35	1225.	65	4225.	95	9025
6	36	36	1296.	66	4356.	96	9216
7	49	37	1369.	67	4489.	97	9409
8	64	38	1444.	68	4624.	98	9604
9	81	39	1521.	69	4761.	99	9801
10	100	40	1600.	70	4900.	100	10000
11	121	41	1681.	71	5041.	101	10201
12	144	42	1764.	72	5184.	102	10404
13	169	43	1849.	73	5329.	103	10609
14	196	44	1936.	74	5476.	104	10816
15	225	45	2025.	75	5625.	105	11025
16	256	46	2116.	76	5776.	106	11236
17	289	47	2209.	77	5929.	107	11449
18	324	48	2304.	78	6084.	108	11664
19	361	49	2401.	79	6421.	109	11881
20	400	50	2500.	80	6400.	110	12100
21	441	51	2601.	81	6561.	111	12321
22	484	52	2704.	82	6724.	112	12544
23	529	53	2801.	83	6889.	113	12769
24	576	54	2916.	84	7056.	114	12996
25	625	55	3025.	85	7225.	115	13225
26	676	56	3136.	86	7396.	116	13456
27	729	57	3249.	87	7569.	117	13689
28	784	58	3364.	88	7744.	118	13924
29	841	59	3481.	89	7921.	119	14161
30	900	60	4600.	90	8100.	120	14400

R	Quadr	R	Quadr	R	Quadr	R.	Quadr
121	14641	151	22801	181	32761	211	43521
122	14884	152	23104	182	33124	212	44944
123	15129	153	23409	183	33489	213	45369
124	15376	154	23716	184	33856	214	45796
125	15625	155	24025	185	34225	215	46225
126	15876	156	24336	186	34596	216	46656
127	16129	157	24649	187	34969	217	47089
128	16384	158	24964	188	35124	218	47524
129	16641	159	25281	189	35721	219	47961
130	16900	160	25600	190	36100	220	48400
131	17164	161	25921	191	36481	221	48841
132	17424	162	26244	192	36864	222	49284
133	17689	163	26569	193	37249	223	49729
134	17956	164	26896	194	37636	224	50176
135	18225	165	27125	195	38025	225	50625
136	18496	166	27526	196	38416	226	51076
137	18769	167	27889	197	38809	227	51529
138	19044	168	28224	198	39224	228	51984
139	19321	169	28561	199	39601	229	52441
140	19600	170	28900	200	40000	230	52900
141	19881	171	29241	201	40401	231	53361
142	20169	172	29584	202	40804	232	53824
143	20449	173	29929	203	41209	233	54289
144	20736	174	30276	204	41616	234	54756
145	21026	175	30625	205	42225	235	55225
146	21306	176	30976	206	42436	236	55696
147	21609	177	31329	207	42849	237	56169
148	21904	178	31684	208	43264	238	56644
149	22200	179	32041	209	43681	239	57121
150	22500	180	32400	210	44100	240	57600

CANON EXTRACTIONIS RADICIS CUB.

R	Cub.	R	Cub.	R	Cub.
1	1	31	29791	61	226981
2	8	32	32768	62	238328
3	27	33	35937	63	250047
4	64	34	39304	64	262144
5	125	35	42875	65	274625
6	216	36	46656	66	287496
7	343	37	50653	67	300763
8	512	38	54872	68	314432
9	729	39	59319	69	328509
10	1000	40	64000	70	343000
11	1331	41	68921	71	357911
12	1728	42	74088	72	373248
13	2197	43	79577	73	389017
14	2744	44	85184	74	405224
15	3374	45	91125	75	421875
16	4096	46	97336	76	438976
17	4913	47	103823	77	456533
18	5832	48	110592	78	474552
19	6859	49	117649	79	493039
20	8000	50	125000	80	512000
21	9261	51	132651	81	531441
22	10648	52	140608	82	551368
23	12167	53	148877	83	571787
24	13824	54	157464	84	592704
25	15625	55	166375	85	614125
26	17576	56	175616	86	636056
27	19686	57	185193	87	658503
28	21952	58	195112	88	681472
29	24389	59	205379	89	704969
30	27000	60	216000	90	729000

VADE MECUM ARCHITECTONICUM

Comprehendens

TABULAS ARCHITECTURÆ CIVILIS atqve MILITARIS.

Easqve maxime neceſſarias, novo calculo atqve methodo hactenus uſitatis ordine facilitate atqve perfectione notabiliter præſtanti concinnatas, & ad omnium uſum accommodatas,

ANNEXIS IN CALCE LIBELLI

1. Catalogo Auctorum abſolutiſſimo,
2. Tabula libellatica,
3. Tabula angulorum ope ſcalæ geometricæ tantum menſurandorum,
4. Tabulis linearum circino proportionatorio inſcribendarum.

IN USUM

NON MODO DISCENTIUM, SED IPSA ETIAM PRAXI OCCUPATORUM PROSTAT

Opera & ſtudio

LEONH. CHR. STURM,

Math. Prof. Publ. in Acad. Ill. Wolffenb.

Amſtelodami, ANNO M cIↃ Icc.

Inſignis harum tabularum prærogativa

1. In Architectura Civili.

Non ſolum V. Ordines antiqvi, ſecundum proportiones probatiſſimarum antiqvitatum & celeberrimorum Auctorum, ſed etiam ſextus, recens à me excogitatus, unà cum Arcuum diſtributione, una eademqve, & facillima qvidem methodo, ope moduli ſive ſemidiametri columnæ in 30. partes diviſi, delineari poſſunt.

2. In Architectura Militari.

Pronum eſt ope harum tabularum omnes famigeratisſimorum Auctorum muniendi modos, una eademqve methodo, ſuper polygono interno extrinſecus, ſive methodo communi belgica deſcribere atqve conſtruere.

Tabula I.

Menſurarum generalium pro qvinqve ordinibus antiqvis.

Juxta proportiones inclytarum Antiqvitatum & probatiſſimorum Auctorum.

NB. A. Significat Baſin ſtylobatæ. B. Truncum. C. Coronidem. D. Baſin columnæ. E. ſcapum. F. capitellum. G. Epiſtylium. H. Zophorum. I. Coronidem. In ſingulis areolis ſuperior numerus Altitudines, inferior Ecphoras ſuppeditat

I. Ordo Toſcanus.

Seulen-Stuhls. Stylobatæ.	A	C	B
Serlio.	20 41 $\frac{2}{3}$	20 4 $\frac{2}{3}$	
Cataneo.	27 49	18 49	90 40
Palladio.			60 40
Scamozzi.	30 43	22 $\frac{1}{2}$ 46 $\frac{5}{6}$	
Vignola.	20 56 $\frac{1}{4}$	15 51 $\frac{1}{4}$	[illegible] 4[illegible]
Goldmann	45 53 $\frac{1}{4}$	22 $\frac{1}{2}$ 56 $\frac{1}{4}$	8[illegible] $\frac{1}{2}$ 41 $\frac{1}{4}$
Auctor Tabularum	37 $\frac{1}{2}$ 47 $\frac{1}{2}$	22 $\frac{1}{2}$ 52	90 40
Columna Trajani	28 $\frac{1}{2}$ 46	[illegible] 47	45 40

Scamozzi	45 $55\frac{1}{4}$	$68\frac{1}{2}$ $44\frac{1}{4}$	$22\frac{1}{2}$ $56\frac{1}{4}$
Vignola	25 $53\frac{3}{4}$	120 $42\frac{1}{2}$	15 $57\frac{1}{2}$
Goldmann	45 $53\frac{1}{4}$	$82\frac{1}{2}$ $41\frac{3}{4}$	$22\frac{1}{2}$ $56\frac{1}{4}$
Auctor.	40 50	96 40	24 55
Der Seule Columnæ	D	E	F
Vitruvius	30 45	360 $26\frac{3}{4}$	30 $37\frac{1}{2}$
Serlio.	30 $44\frac{1}{2}$	360 25	30 $35\frac{1}{2}$
Branca	30 40	420 25	30 $38\frac{1}{3}$
Cataneo	30 45	360 25	30 $36\frac{1}{4}$
Alberti	30 45	360 $26\frac{2}{3}$	30 35
Palladio	$28\frac{3}{4}$ 40	$421\frac{1}{4}$ 26	30 $38\frac{3}{4}$
Scamozzi	30 42	450 24	30 34

Vignola	27 ½ 42 ½	420 25	30 38 9/12
Goldmann	30 40	420 24	30 34
Auctor	30 40	390 24	30 36
Theatrum Marcell.		421 ⅔ 22 ¾	32 11/12 37 ¾
Des Gebälckes Trabeationis.	G	H	I
Vitruvius	30 35	45 25	30 66 ¼
Serlio	30 27 ½	45 15	37 70
Branca	35 28	40 15	45 60
Cataneo	30 30	45 15	35 65
Alberti	30 31 ⅓	45 15	37 ½ 71 ⅔
Palladio	30 30 ½	45 15	38 71
Scamozzi	35 29	45 15	47 75

Vignola		30 28	45 15	45 81 ¼
	2. M.	40 29	36 12	44 72
Goldmann	2½ M.	30 30	45 15	45 72
	2⅓ M.	30 30	40 15	50 84
Auctor.	2⅔ M.	32 30 ⅔	48 32	40 72
	3. M.	30 30 ½	54 18	36 69
Theatrum Marcelli		30 26 ¼	40 15	37 2/9
Antiche bey Albano		30 30	42 14	38 75
Numentaniſche Brucke.		30	40	50
Thermæ Diocleti:		32 29	45 15	46 73
III. Ordo Jonicus.				
Seulenſtühle. Stylobatæ		A	B	C
Serlio		23 53	123 41	22 ½ 56

Cataneo	33 5/7 64 1/2 1/8	113 7/8 41 1/4	25 2/7 64 1/2 1/8
Palladio	43 56 1/4	95 41 1/4	21 56 1/4
Scamozzi	45 54 1/4	82 1/2 41 1/4	22 1/2 57 1/4
Vignola	20 55 5/6	125 42 1/2	20 59 1/6
Goldmann	45 53 1/4	82 1/2 41 1/4	22 1/2 56 1/4
Auctor.	41 2/3 48	100 40	25 55
Templ. Fortunæ virilis	63 3/4 70 1/4	93 3/4 44 1/2	23 1/6 66 5/6
Coliſeum	43 3/4 50 1/2	81 5/6 40 2/3	17 49 2/3

Seule. Columnæ.	D	E	F
Vitruvius	30 41 1/4	448 1/3 25	31 2/3 31 2/3
Serlio	30 41	421 25	29 31
Branca	30 42	490 25	20
Cataneo	30 45	480	20

Alberti	30 41 ¼	490 9/19	28 31 7/8
Palladio	30 41 ¼	478 ⅓ 25	31 ⅔ 31 ⅔
Scamozzi	30 41 ½	462 11/12 25	32 1/12 40
Vignola	30 40	496 ⅔ 25	30 ⅚ 33 ⅓
Goldmann	30 40	420 24	30 45
Auctor	30 40	440 24 ½	30 45
Templ. Fortunæ virilis	30 43	470 26 ¼	33 ½
Theatrum Marcelli	31 42	471 ⅚ 25	27 31
Coliſeum	27 ⅚ 40 ⅔	473 ⅓ 25	28 30
Templ. Concordiæ	28 40	511 ½ 24 ½	33 ½ 42 5/12

Gebälcke. Trabeationis.	G	H	I
Vitruvius	34 30	25 1/7 25	42 4/21 67 4/21
Serlio	30 30	27 25	32 62 ½

Branca	40 44	45 25	50 71[illegible]
Cataneo	34 30	$25\frac{1}{2}$ 25	$42\frac{4}{21}$ $67\frac{4}{21}$
Alberti	$38\frac{4}{7}$ $35\frac{5}{21}$	$37\frac{1}{2}$ $26\frac{2}{3}$	50 $76\frac{2}{3}$
Palladio	36 $31\frac{1}{3}$	$22\frac{1}{3}$ 25	46 71
Scamozzi	35 32	28 25	42 70[illegible]
Vignola	$37\frac{1}{2}$ $33\frac{1}{3}$	45 25	52[illegible] 76[illegible]
Goldmann	40 30	32 24	48 72
Auctor	$41\frac{2}{3}$ 32	$33\frac{1}{3}$ $24\frac{1}{2}$	50 74[illegible]
Templ. Fort. viril.	$38\frac{5}{6}$ $32\frac{3}{4}$	$28\frac{3}{4}$ 28	70[illegible] 86[illegible]
Theatr. Marc.	$45\frac{1}{[illegible]}$ $36\frac{1}{2}$	35 $30\frac{1}{2}$	65
Coleſeum	$40\frac{1}{6}$ $36\frac{5}{12}$	$46\frac{2}{3}$ 27	49[illegible] 77[illegible]
Templ. Conc.	6[illegible]	[illegible]	[illegible] 60
Thermæ Diocletiani	34 32	30 25	[illegible] [illegible]

IV. Ordo Teutonicus.

Seulenſtuhls. Stylobatæ.	A	B	C
Die erſte ſolidere Manier. primus ſolidior modus.	45 52	108 46	27 56
Die andere zärtere Manier mit einem Unterſatz 15. p. hoch alter modus tenerior cum Scamillo. 15. part.	45 $53\frac{1}{4}$	90 $41\frac{1}{4}$	30 55
Seule. Columnæ.	D	E	F
Erſte Manier modus primus.	30 40	470 $24\frac{1}{2}$	40 45
Andere Manier modus poſterior.	30 40	470 25	40 45
Gebälcke. Trabeationis.	G	H	I
Erſte Manier modus prior.	45 32	36 $24\frac{1}{2}$	54 $84\frac{1}{2}$
Andere Manier modus poſterior.	36 30	54 25	45 85

V. Ordo Romanus.

Seulenſtuhls. Stylobatæ.	A	B	C
Serlio	$21\frac{1}{24}$ $54\frac{1}{2}$	$168\frac{1}{3}$ $42\frac{1}{2}$	$21\frac{1}{24}$ $58\frac{1}{2}$
Cataneo	30 $57\frac{4}{13}$	130 40	$18\frac{6}{13}$ $57\frac{4}{13}$
Palladio	49 57	125 42	$23\frac{1}{2}$ 57

Scamozzi	45 54 ½	112 ½ 42	22½ 59⅓
Vignola	18 52 1/12	165 40 ½	25 52 ½
Goldmann	45 52 ¼	82 ½ 41 ¼	22 ½ 56¼
Auctor	47 ½ 52	114 40	28 ½ 58
Arcus Aurifabrorum		142 ½	25 ¼
Arc. Sept. Severi	61 ⅙ 69 ⅔	140 ½ 45	29 ⅚ 70 ½
Arc. Titi. Veſp.	85 73 ⅔	141 45 ⅔	29 72⅙
Seule. Columnæ.	D	E	F
Serlio	30 42 ½	501 ⅔ 25	30 45
Branca	29 ⅙	500 ⅚ 25	70 45
Cataneo	28 ¾ 40	511 ¼ 26 ¼	60 45
Palladio	30 42	498 ½ 25	70 45
Scamozzi	30 42	490 25 5/7	70 45

Vignola	30 40 ½	500 25	70 45
Goldmann	30 40	480 25	70 45
Auctor.	30 40	480 25	60 45
Templ. Bacchi	30 41 ½	476 26 ¾	76 52
Arc. Aurifabr.	27 ⅙	340 ⅓ 30	68 ¾
Arc. Sept. Severi	31 1/12	480 5/12 26 ⅜	68 ½ 45 ⅜
Arc. Tit. Veſp.	29 ¾ 44	527 26 ½	74 ¼ 47 ¼
Gebälcke Trabeationis.	G	H	I
Serlio	50 32	50 25	50 90
Branca	45	50 25	55 80
Cataneo	52 ½ 33 ¾	52 ½ 26 ¼	52 ½ 123 ¾
Palladio	39 ⅚ 34 ¾	34 25	46 ⅙ 71 ⅙
Scamozzi	39 33 5/7	31 ¼ 25 5/7	46 ¾ 71 [illegible]

	A	B	C
Vignola	45 36 2/3	45 25	58 1/3 85
Goldmann	40 31	32 25	48 73
Auctor	47 1/2 34	38 25	57 87
Templ. Bacchi	41 1/2 37 1/2	34 31 1/2	46 3/4 73
Ar. Aurif.	52 1/2	31 1/4 30	77 1/2
Arc. Sept. Severi	45 36 1/4	25 1/2 26 3/4	68 7/12 81 1/4
Arc. Titi. Veſp.	46 40 1/4	44 1/2 28 3/4	62 1/8 90 3/4
VI. Ordo Conrinthiacus.			
Seulenſtuhls. Stylobatæ.	A	B	C
Serlio	20 5/21 54 1/2	141 2/3 42 1/2	12 9/28 57 1/2
Cataneo	25 25/32 57 7/24	123 3/4 41 1/4	20 5/8 57 7/24
Palladio	37 1/2 57	93 3/4 42	18 3/4 57
Scamozzi	45 54 1/2	132 1/2 41 1/4	22 1/2 57 7/12

Vignola	25 55 1/3	166 2/3 41 2/3	23 1/3 63 1/3
Goldmann	45 53 1/4	82 1/2 41 1/4	22 1/2 56 1/4
Auctor	50 52	120 40	30 60
Sacellum Panth:	65 1/12 63	158 2/3 43	15 61
Arcus Conſtantini	46 1/2 61 1/2	152 42 1/6	29 1/2 61 1/2
Jonic. Columnæ.	D	E	F
Vitruvius	30 41 1/4	448 1/3 25	60 45
Serlio	30 42 1/2	450 25	60 45
Branca	31 2/3 41 1/4	448 1/3 26	70 45
Cataneo	30 41 1/4	450 27	60 41 1/4
Alberti	30 41 1/4	390	60 45
Palladio	30 42	467 3/4 25	70 45
Scamozzi	30 41 1/4	500 26 1/4	70 45

Vignola	30 41 2/3	480 25	70 46
Goldmann	30 40	480 25	70 45
Auctor	30 40	500 25	70 45
Pantheon extrinſecus	30 43 1/2	488 3/4 26 1/6	67 [illegible] 42 [illegible]
Pantheon intus	25 1/4 41	476 26	68 [illegible] 44 [illegible]
Templ. Antonin.&Fauſt.	29 3/4 41 5/6	478 26 1/5	68 [illegible] 44 [illegible]
Tres Columnæ in foro boario	30 42 1/6	510 1/2 25 3/4	66 1/3 48
rontiſpicium Neronis	33 1/3 42 1/6	 26 1/2	76 [illegible] 42 [illegible]
aſilica Antonini	31 3/4 41 3/4	510 1/2 26 1/6	69 1/2 47 1/3
rcus Conſtantini	32 2/3 42	478 2/3 26 3/8	65 [illegible] 45 [illegible]
Schäffte Trabeationis.	G.	H.	I
truvius	34 30	25 1/2 25	42 4/21 67 4/21
rlio	30 32	37 25	39 70

anca	45	50 26	55 81
ataneo	45 33 6/7	56 1/4 27	56 1/4 83 1/4
lberti	33 7/11 29 24/33	33 7/11 25	59 1/5 84 1/5
alladio	38 33 1/2	28 1/2 25	47 1/2 73 3/4
camozzi	40 34 5/6	32 26 1/4	48 74 1/4
ignola	45 33 1/3	45 25	60 88 1/3
oldmann	40 32 1/2	32 25	48 73
uctor	50 33	40 25	60 85
antheon ext.	42 3/4 34 1/4	39 1/2 26 1/2	54 78 2/3
antheon int.	42 3/8 33 1/2	42 25 1/2	51 76 1/6
empl. Ant. & Fauſt.	43 1/3 33	40 2/3 25 5/8	52 1/2 77 7/12
res. Columnæ	43 1/2 33 3/4	43 1/3 26 3/4	69 5/12 93 3/4
rontiſp. Ner.	44 3/4 35 1/8	44 1/4 26 1/2	57 7/8 78 2/3

Baſilica Antonini	43 1/3 36 1/5	32 1/2 27	
Arc. Conſt.	45 33 1/4	40 26 5/12	58 7/12 83 1/8

Pro faciliori uſu atqve intellectu hujus tabulæ, ſeqventia obſervanda ſunt. 1. Ecphora ſcapi contracti tantum adducta eſt, qvia ſcapi teretis Ecphora, ſive modulus, jam nota, & ubiqve eadem, 30. ſcilicet particularum eſſe præſupponitur. 2. Pro Ecphora Zophori Dorici, qvæ cum Ecphora ſcapi contracti convenit, Ecphora triglypi exhibetur. 3 Altitudo Zophori nudi & triglyphi eadem eſt, membra vero Zophoro imponenda, Coronici adnumerantur. 4. Qvinqve trabeationes Doricæ, tum a me tum a Goldmanno computato Ordini Dorico conveniunt, atqve adeo hunc ordinem ad ſummam perfectionem redactum eſſe, nemo negabit. 5. Ut cognoſcas qvibusnam diſtantiis columnarum qvævis earum trabeationum conveniat, à latere cujusqve numerum invenies modulis integris expreſſum, qvi diſtantiam à medio unius triglyphi ad alterum denotat. 6 Scapi Jonici altitudo ubiqve tantum computata eſt usqve ſub volutas. 7. Ecphora capitulorum eadem eſt cum ſupremi membri Ecphora, 8. Goldmanni Stylobatæ absqve ſcamillis exhibentur. Hi vero eandem cum trunco Ecphoram, & unius moduli altitudinem habent. 9. Ulteriori introductione ad uſum hujus tabulæ non opus eſt. Qvicunqve primis ſaltem Architecturæ rudimentis imbuti ſunt, & nomina Ordinum eorumqve partium norunt, it. qvid Altitudines partium, qvid Ecphoræ ſint, absq; manuductione qvam faciliime hac tabula utentur.

TABULA II.

Sex Ordinum ſecundum ſingula membra, Maximam partem juxta Goldmanni proportiones.

Pro hujus tabulæ uſu monendum eſt: 1. Ceu ſupra memini, modulum, ſive Ecphoram ſcapi teretis in triginta partes dividendum eſſe pro ſingulis mem-

rorum menſuris determinandis. 2. membra omnia ab Imo Ordinis verſus ſummitatem ejus continua ſe ic collocantur. 3. Series numerorum prima altitudines ſingulorum membrorum ſeparatim, altera ſeries ſummam altitudinem illius membri una cum antecedentibus exprimit, qvod delineationi magis exacte perficiendæ imprimis inſervit. 4. In tertia ſerie invenies Ecphoras, ubi notandum Cymatia lesbia duas Ecphoras, reliqva membra omnia tantum unam ſortiri. 5. Series ultima Radios exponit, hoc eſt menſuras, qvibus mediantibus, membrorum curvi tractus, uno circini ductu aut duobus ad ſummum delineantur. Id vero præcipue attendendũ eſt, centra horũ arcuũ ſemper in lineas membra ſuperius & inferius terminantes cadere, ita ut radii Cymatiorũ Doricorum & Apophygum ſuperiorũ, ab Ecphora in linea inferiori extrinſec9; Apophygũ inferiorum, in ſuperiori linea extrinſec9: Echinorum in ſuperiori linea intrinſec9 collocandi ſint. Cymatiorũ Lesbiorũ alter Radius ſupra intrinſecus, alter infra extrinſecus ponitur. Simarum radius ſuperior ſub extremitate ejus ſuperiori perpendiculariter, eodemqve modo inferior radius ſupra extremitatem inferiorem defigitur. 6. In tabula membrorum nomina germanica poni neceſſum fuit. Sed appoſitæ literæ ſignificatum latinum, in indice hic ſubnexo facillime reperiundum reſtituunt

A	Baſis Stylobatæ.	ff	Plinthus
B	Truncus	g	Corona
C	Coronis	h	hypotrachelium
D	Baſis columnæ	i	Scapus teres
E	Scapus	k	Scapus contractus.
F	Capitulum	l	triglyphus
G	Epiſtylium	m	Encarpus
H	Zophorus	n	limbus·
I	Coronix	o	Aſtragalus
K	Scamillus	p	Torus
a	Qvadra	q	Annulus
b	regula	r	Echinus
c	ſupercilium	s	Apophygis inferior
d	tænia	t	Apophygis ſuperior.
e	abacus	u	Trochilus ſive Scotia
f	faſcia	v	Cimatium Doricum

γν	Cimatium Lesbium	λ	Oculus volutæ
ξ	Sima	ν	Folia inferiora usqve ad labia
γ	Sima inverſa	π	folia ſuperiora ad labia
ζ	gula	ρ	labia ipſa
φ	guttæ	σ	Canaliculus
ρ	denticuli	τ	Interſtitium
ϒ	metopæ	Φ	Interior cuſpis canaliculi
ρ	Pſeudomutulus	ψ	Summitas canaliculi.
	Mutulus		
ϑ	Centrum volutæ		

Deniqve notandum eſt, hunc indicem ſeqventi tabulæ intelligendæ pariter conducere:

I. Toſcaniſche Ordnung

A Seulenſtuhls Fuß	Hö:	Summ	Ausl.	Rad.
a Grundſtein	30		53 ¼	
p Pfuhl	4	34		2
ↄ Riemen	1	35	51 ¼	
y Sturtzrinne	6	41		3
ↄ Riemen	1	42	45 ¼	
v Holleiſten	3	45	43 ¾	3 ¾
B Würffel	82 ½		41 ¼	
C Deckel				
γ Holleiſten	3		43 ¾	3 ¾
ↄ Riemen	1	4	45 ¼	
τ Wulſt	5	9	48 7/12	5 [illegible]
ξ Krantzleiſten	6	15	53 ¼	
ↄ Riemen.	1	16	54 ¼	
Platte biß an dē Anlauff	2	18	55 ¼	

t deren Anlauff	2	20		2 ½
c Uberſchlag	2 ½	22 ½	56 ¼	
K Unterſatz	30		41 ¼	
D Seulenfuß				
ff Taffel	15			7 ½
p Pfuhl	15	30	40	
n Saum	3		32 ½	
s Anlauff	5	8		6 ¼
i gleich dicke Stam̃	100	108	30	
k verdün̄ete Stamm	300	408	24	
t Ablauff	4	412		4 ⅙
n Saum	2	414	27	
q Rincken	6	420	30	3
F Capitäl oder Knauff	Hö:	Sum̃	Ausl.	Rad:
h Halß	9		24	
b Riemen	1	10	25	
b Riemen	1	11	26	
b Riemen	1	12	27	
r Wulſt	8	20	32 ⅓	8 ⅓
c Platte biß an d' Ablauff	6	26	33	
t deren Ablauff	2	28		2 ½
c Uberſchlag	2	30	34	
G Unterbalcken				
f untere Streiffen	15		24	

obere Streiffen	20	35	25	
Riemen	1	36	26	
Uberſchlag	4	40	27	
H Borten				
H Borten biß an dē Ablauf	34		24	
t deſſen Ablauff	2	36		2½
d Band	4	40	25	
I Krantz				
v Holleiſten	4		27	5
b Riemen	1	5	29	
r Wulſt	6	11	33	6½
v Holleiſten	3	14	58½	3¾
b Riemen	1	15	60	
g Krantzleiſten	9	24	62	
b Riemen	1	25	63	
d Band	3	28	64	
x Kinneleiſten	8	36		4
c Uberſchlag	4	40	72	

II. Doriſche Ordnung.

A Seulenſtuhls Fuß	Hö.	Sum.	Ausl.	Rad.
a Grundſtein	30		53¼	
p Pfuhl	4	34		2
b Riemen	1	35	51¼	
y Sturtzrinne	6	41	45¼	3
b Riemen	1	42		1⅞
v v. Kehl-Leiſten	3	45	{44¼ 42¾	

B Würffel	82 1/2		41 1/4	
C Deckel				
w Kehlleiſten	3		{ 42 3/4 44 3/4	1 7/8
b Riemen	1	4	45 1/4	5 5/12
Wulſt	5	9	48 7/12	
Krantzleiſten	6	15	53 1/4	2 1/2
Holleiſten	2	17	54 1/4	
Platte bis an dē Ablauff	1	18	55	
der Ablauff	2	20		2 1/2
Uberſchlag	2 1/2	22 1/2	56	
K Unterſatz	30		41 1/4	
D Seulenfuß				
Taffel	10		40	
Pfuhl	8	18		4
Riemen	1	19	36	
Einziehung	4	23	33 1/2	{ 1 1/2 2 1/2
Riemen	1	24	35	
Pfuhl	6	30		3
Stamm				
Saum	2		33	
Anlauff	6	8		7 1/2
Gleichd. Stamm	100	108	30	
verdünneter Stam̃	300	408	24	
Ablauff	4	412		4 1/6

n Saum	2	414	27	
q Rincken	6	420	30	
F. Capitäl	Hö.	Sum.	Ausl.	Rad.
h Halß	10		24	
vv Kehlleiſten	3	13	{ $24\frac{1}{2}$ / 26 }	$1\frac{7}{8}$
b Riemen	1	14	27	
r Wulſt	6	20	31	$6\frac{1}{2}$
e Platte	5	25	$31\frac{1}{2}$	
vv Kehlleiſten	3	28	{ 32 / $33\frac{1}{2}$ }	$1\frac{7}{8}$
c Uberſchlag	2	30	34	
G I. Unterbalcken				
f Unterſtreiffen	9		24	
f Oberſtreiffen	9	18	25	
a Zapffen	6	24	$27\frac{1}{2}$	
b Riemen	1	25		
v Holleiſten	3	28	29	$3\frac{3}{4}$
c Uberſchlag	2	30	$30\frac{1}{2}$	
G II Unterbalcken				
f Unterſtreiffen	15		24	
f Oberſtreiffen	15	30	25	
a Zapffen	4	34	27	
b Riemen	1	35	27	
v Holleiſten	2	37	28	$2\frac{1}{2}$
c Uberſchlag	3	40	29	

III. Unterbalcken	Hö.	Sum.	Ausl.	Rad.
Unterſtreiffen	10		24	
Oberſtreiffen	10	20	25 1/4	
s Zapfen	3 3/4	23 3/4	27 3/4	
b Riemen	1 1/4	25		
v Holleiſten	2	27	29	2 1/2
c Überſchlag	3	30	30	

G IVte Unterbalcken wie der dritte
Sicut tertium.

G t.V. Unterbalcken	Hö.	Sum.	Ausl.	Rad.
F Unterſtreiffen	9 1/2		24	
F Oberſtreiffen	9 1/3	18 2/3	25 1/3	
a Zapffen	5 1/3	24		
b Riemen	1	25	27 1/3	
v Holleiſten	4	29	28 2/3	5
c Überſchlag	3	32	30 2/3	

H Borten Höhen. altitudines	1	2	3	4	5
φ der Dreiſchlitze innerſte Höhe	48	32	40	35	42 2/3
ψ deren Höhe biß oben an die Ausſchnitte	3	2	2 1/2	2 1/2	2 2/3
l die gantze Höhe derſelbẽ	3	2	2 1/2	2 1/2	2 2/3
d Band		4	5	5	

Breite latitudo	1	2	3	4	5
l des gãtzẽ dreyſchlitz	36	24	30	30	32
y der zwiſchen tieffe	54	36	45	40	48
σ dimid. eines halbẽ ſchlitzes	3	2	2 1/2	2 1/2	2 2/3
τ eines zwiſchen Stabes	6	4	5	5	5 1/3

τ profund. tieffe der ſchlize	3	2	2 ½	2 ½	2 ⅔
craſſities. dicke des drey-ſchlizes	4	3	3 ¾	3 ¾	3 ⅘

I. I Krantz				
yv Kehlleiſten	4		29 / 31	2 ½
b Riemen	1	5	32	
δ Dielen Köpff	5	10	68	
yv deſſen Kehlleiſten	3	13	69 / 70 ½	1 ⅞
g Krantzleiſten	9	22	73 ½	3 ¾
v Holleiſten	3	25	74 ½	
b Riemen	1	26	76 ½	4
x Rinneleiſten	8	34		
c Uberſchlag	2	36	84	

I. II. Krantz	Th.	Sum.	Ausl.	Rad.
yv Kehlleiſten	3		29 / 30 ½	1 ⅞
b Riemen	1	4	31 ½	
δδ Band der Zahnſchnitte	5	9	34 ½	
b Riemen	1	10	35 ½	
r Wulſt	4	14	38 ⅙	4 ⅓
v Holleiſten	1	15	56 ⅙	1 ¼
b Riemen	1	16	56 ⅔	
g Krantzleiſten	9	25	61 ½	
v Holleiſten	3	28	62 ½	3 ¾
b Riemen	1	29		
x Rinneleiſten	8	37	64	4
c Uberſchlag	3	40	72	

I. III. Krantz wie der Andere
Sicut Secunda.

I. IVte Krantz

	Hö.	Summ	Ausl.	Rad.
vv Kehlleiſten	4		29 3/4 31 3/4	2 1/2
b Riemen	1	5	32 3/4	
r Wulſt	5	10	36 1/12	5 5/12
da Zapffen der Dicken Köpfe	7 3/4	13 3/4	67 1/3	
ff Oberſtreiffen derſelben	3 3/4	17 1/2	68 7/12	
dvv Kehlleiſten derſelben	3 3/4	21 1/4	69 9/16 71 7/16	2 3/?
g Krantzleiſten	9	28 1/4	74	
r Holleiſten	3	31 1/4	74 1/2	
o Riemen	1	32 1/4	76	1 7/8
k Rinneleiſten	8	40 1/4	[illegible]	4
c Überſchlag	2 3/4	43	84	

I. V. Krantz wie der Andere
ſicut Secunda.

Pſeudomutuli longitudinem latitudini æqualem habent, & ſupra triglyphos collocantur.

III. Joniſche Ordnung.

A Seulenſtuhls Fuß	Hö.	Summ	Ausl.	Rad.
a Grundſtein	27		53 1/4	
p Pfuhl	4	31	51 1/4	2
b Riemen	1	32		
x Rinneleiſten	6	38	45 1/4	3
o Stab	2	40		
b Riemen	1	41		

vv Kehlleiſten	4	45	44 1/4 42 1/4	2 1/2
B Würffel	82 1/2		41 1/4	
C Deckel				
vv Kehlleiſten	4		42 1/4 44 1/4	2 1/2
b Riemen	1	5	45 1/4	
o Stab	2	7		
r Wulſt	5	12	48 7/12	5 5/12
g Krantzleiſten	5	17	53 1/4	
vv Kehlleiſten	3	20	54 55 1/2	1 7/8
c Uberſchlag	2 1/2	22 1/2	56 1/4	
K Unterſatz	30		41 1/4	
D Seulenfuß.				
ff Taffel	10		40	
p Pfuhl	8	18		4
b Riemen	1	19	36	
u Einziehung	4	23	31 1/2	1 1/2 2 1/2
b Riemen	1	24	33	
p Pfuhl	6	30		3
E Stamm				
o Stab	3			
n Saum	2	5	31 1/2	
s Anlauff	2	8		2 [illegible]

i gleich dicke Stam	138	146	30	
k verdünnete Stam	322	468	24	
t Ablauff	4	472		4 1/8
n Sattel	2	476	27	
q Zincken	6	480	30	
Knauff	**Hö.**	**Sum̃.**	**Ausl.**	**Ra.**
m Fruchtſchnuhr	3 ¾			3
z Kropffleiſten obere helfte	3 ¾	7 ½	31	
b Riemen	1 ½	9		
d Schnecken Centrū	1 ½	10 ½	23 ½	
o Stabs obere helfte	1 ½	12	32 ½	1 ½
r Wulſt	6	18	35 ½	6 ½
e Platte bis an den Ablauff	6	24	40	
t deren Ablauff	1	25		
b Riemen	1 ¼	26 ¼	41	
r Wulſt.	3 ¾	30	45	
G Unterbalcken				
f Unterſtreiffen	10		24	
o Stab	2 ½	12 ½		1 ¼
f obere Streiffen	12	24 ½	25 ¼	
vv Kehlleiſten	5	29 ½	{ 26 ½ / 29	3 1/8
c Uberſchlag	2 ½	32	30	
H Borten				
H Borten biß an den Ablauff.	32		24	

t der Ablauff	5 $\frac{1}{3}$	37 $\frac{1}{3}$		
n Saum	3 $\frac{2}{3}$	40	26 $\frac{2}{3}$	6 $\frac{2}{3}$
I. Kranz				
vv Kehlleiſten	4		27 $\frac{2}{3}$ 29 $\frac{2}{3}$	2 $\frac{1}{2}$
b Riemen	1	5	30 $\frac{2}{3}$	
r Wulſt.	5	10	34	5 $\frac{5}{12}$
f Streiffẽ der Sparren Köpffe	11	21	35	
s. vv derſelbe Kehlleiſten	3	24	35 $\frac{1}{2}$ 37	1 $\frac{7}{8}$
g Kranzleiſten	9	33	60 $\frac{1}{2}$	
vv Kehlleiſten	3	36	61 $\frac{1}{2}$	1 $\frac{7}{8}$
b Riemen	1	37	63	
x Rinneleiſten	8	45	64	4
c Uberſchlag.	3	48	72	

Mutulorum altitudo & latitudo 10. part. longitudo 15 part. binorum qvorumvis interſtitium 20. part continet.

IV. Teutſche Ordnung.

a Grundſtein	26		53 $\frac{1}{4}$	
b Riemen	1	27	52 $\frac{1}{4}$	
y Rinneleiſten	8	35		4
b Riemen	1	36	44 $\frac{1}{4}$	
u Einziehung	3	39	42 $\frac{1}{4}$	6 $\frac{7}{1}$
b Riemen	1	40	42 $\frac{3}{4}$	
p Pfuhl	4	44		2
b Riemen	1	45	42 $\frac{1}{4}$	

	Hð.	Summ	Ausl.	Rad.
B Würffel	90		$41\frac{1}{4}$	
C Deckel	Hð.	Summ	Ausl.	Rad.
b Riemen	1		$42\frac{1}{4}$	
o Stab	2	3		1
h Halß am Würffel	$7\frac{1}{2}$	$10\frac{1}{2}$	$41\frac{1}{4}$	
vv Kehlleiſten	3	$13\frac{1}{2}$	$42\frac{1}{4}$ $43\frac{3}{4}$	$1\frac{7}{8}$
b Riemen	1	$14\frac{1}{2}$	$44\frac{3}{4}$	
r Wulſt	5	$19\frac{1}{2}$	$48\frac{1}{12}$	$5\frac{5}{12}$
g Krantzleiſten	6	$25\frac{1}{2}$	$54\frac{1}{4}$	
b Riemen	1	$26\frac{1}{2}$	$55\frac{1}{4}$	
o Stab	2	$28\frac{1}{2}$		1
c Uberſchlag	$2\frac{1}{2}$	30	$56\frac{1}{4}$	
K groſſe anlauff an ſtatt des Unterſatzes	15		$41\frac{1}{4}$	15
D Seulenfuß	Hð.	Summ	Ausl.	Rad.
ff Taffel	10		40	3
p Pfuhl	6	16		3
b Riemen	1	17	37	
y Rinneleiſten	4	21	33	2
b Riemen	1	22	33	
u Einziehung	3	25		1 $\frac{1}{2}$
b Riemen	1	26	32	
p Pfuhl	4	30		2
E Stamm				
o Stab	2			

n Saum	2	4	32	
s Anlauff	4	8		5
i gleichdicke Stam̃	138	146	30	
k verdüſiete Stamm	322	468	25	
t Ablauff	5	473		6 $\frac{1}{4}$
n Saum	2	475	27 $\frac{1}{2}$	
q Rincken	5	480	30	2 $\frac{1}{2}$
F Knauff				
m Fruchtſchnuhr	4			
z Glockleiſtens überreſt	6	10	31	
b Riemen	2	12	31	
o Stab	4	16		
ad λ biß an dz ſchneckẽ aug	1 $\frac{1}{2}$	17 $\frac{1}{2}$		
λ Schnecken Auge	2 $\frac{1}{2}$	20	29	
ad λ biß zum Auge der kleinẽ Schnecke	1 $\frac{1}{4}$	21 $\frac{1}{4}$		
λ Höhe des Auges	1 $\frac{3}{4}$	23	6 $\frac{1}{4}$	
Supra r biß über dẽ wulſt	2	25	35	
infra e. biß unter die platte	5	30		
e Platte	4	34	40	
vv Kehlleiſten	4	38	{41 $\frac{1}{6}$ / 43 $\frac{5}{6}$}	
c Uberſchlag	2	40	45	
G Unterbalcken	Hö.	Summ	Ausl.	Rad.
f Unterſtreiffen	10		25	

o Stab	2	12		1
f Oberſtreiffen	5	27	26	
vv Kehlleiſten	4	31	{ 27 29	$2\frac{1}{2}$
c Überſchlag	2	33	30	
v umgekehrte Holleiſtē	3	36	$28\frac{1}{2}$	$3\frac{3}{4}$
H Borten	4		25	
I Krantz.				
b Riemen	1		26	
o Stab	2	3		
vv Kehlleiſten	4	7	{ 28 30	$2\frac{1}{2}$
f untereſtreiffen zu den Dielē Köpffen	4	11	31	
f Obereſtreiffen	4	15	32	
vv Kehlleiſten	3	18	{ $32\frac{3}{4}$ $34\frac{1}{4}$	$1\frac{7}{8}$
f Streiffen zu den Sparren Köpffen	6	24	71	
g Krantzleiſten. biß an den Ablauff	6	30	76	
t deſſen Ablauff	2	32		$2\frac{1}{2}$
b Riemen	1	33	77	
o Stab	$2\frac{1}{2}$	$35\frac{1}{2}$		
x Rinneleiſten	8	$43\frac{1}{2}$	77	4
c Überſchlag	$1\frac{1}{2}$	45	85	

Mutuli 7. part. latitudinem, 5. part. altitudinem, & 15½ part. interſtitium poſcunt. Unus eorum axi columnæ ſemper correſpondeat neceſſe eſt. Pſeudomutulis 36. part. tum latitudo tum longitudo competit.

V. Römiſche Ordnung.

A Seulenſtuhls Fuß	Hö:	Sum.	Außl.	Ra.
a Grundſtein	25		53¼	
p Pfuhl	5	30	50¼	2½
b Riemen	1	31		
y Kinneleiſten	6	37		3
b Riemen	1	38	44¼	
u Einziehung	2	40	41¼	{ ¾ ¾ }
b Riemen	1	41	43¼	
p Oberpfuhl	4	45		2 [illegible]
b Riemen	1		43¼	[illegible]
s Anlauff	3	4		3¾
B Uberreſt des Würffels	78½	82½	41¼	
C Deckel				
vv Kehlleiſten	4		{ 42¼ 44¼ }	
b Riemen	1	5	45¼	
o Stab	2	7		
r Wulſt	5	12	48 7/12	
g Krantzleiſten	4½	16½	52¼	
o Stab	1½	18		
vv Kehlleiſten	2½	20½	{ 53 55¼ }	

	Hö.	Summ	Ausl.	Rad.
c Überſchlag	2	$22\frac{1}{2}$	$56\frac{1}{4}$	
K Unterſatz	30		$41\frac{1}{4}$	
D Seulenfuß				
ff Taffel	10		40	
p Pfuhl	6	16	37	3
o Stab	3	19		$1\frac{1}{2}$
b Riemen	1	20	$35\frac{1}{2}$	
u Einziehung	4	24	$31\frac{1}{2}$	{ $1\frac{1}{2}$ / $2\frac{1}{2}$ }
b Riemen	1	25	33	
p Pfuhl	5	30		$2\frac{1}{2}$
	Hö.	Summ	Ausl.	Rad.
o Stab	3			$1\frac{1}{2}$
n Saum	2	5	$31\frac{1}{2}$	
s Anlauff	3	8		$3\frac{3}{4}$
i Gleichd. Stamm	160	168	30	
k verdünnete Stam̃	320	488	25	
t Ablauff	5	493		$6\frac{1}{4}$
n Saum	2	495	$27\frac{1}{2}$	
q Rincken	5	500	30	$2\frac{1}{2}$
F Knauff				
v Untere blätter biß an die Lippen	15			
e ihre Lippen	5	20	35	
x obere blätter biß ꝛc.	15	35		

p ihre Lippen	5	40	40	
m Fruchtſchnur	3 3/4	43 3/4		
ad b. überreſt des Keſſels	3 3/4	47 1/2		
b Riemen	1 1/2	49	31	
s Schnecken Centrũ	1 1/2	50 1/2	23 1/2	
o Stabs überreſt	1 1/2	52		
r Wulſt	6	58	35	
e Platte biß an den Ablauff	6	64	40	
t der Ablauff	1	65		
b Riemen	1 1/4	66 1/4		
r Wulſt	3 3/4	70	45	
G Unterbalcken				
f untere Streiffen	7 1/2		25	
o Stab	1 1/2	9	25 3/4	3/4
f mitlere Streiffen	10	19		
vv Kehlleiſten	2	21	{ 26 1/4 27 1/4	1 1/4
f obere Streiffen	1 2 1/2	33 1/2	27 3/4	
o Stab	1 1/2	35		
vv Kehlleiſten	3	38	{ 28 1/2 30	1 7/8
c Uberſchlag	2	40	31	
H Borten	Hö.	Summ	Ausl.	Rad.
H Borten ſo weit es glat	30		25	

37 c 4

o Stab	2	32		1
Kränz				
vv Kehlleiſten	4		{ 26 / 28	2 1/4
o Riemen	1	5	29	
o Stab	1 2/3	6 2/3		
r Wulſt	5	11 2/3	32 1/3	5 5/12
ad ſ untereſtreiffẽ zu dẽ Sparrẽ Köpfen biß an dieſelbe	1 1/12	12 3/4	33 1/3	
ſ f Uberreſt dieſes Streifen	3 1/3	16 1/12		
yv Kehlleiſten	1 2/3	17 3/4	{ 33 3/4 / 34 7/12	
f obere Streiffen zu den Sparrẽ Köpfe	5	22 3/4	35	
o Stab	1 1/4	24		
vv Kehlleiſten	2 1/2	26 1/2	{ 35 5/8 / 36 7/8	1 9/16
g Krantzleiſten	7 1/2	34	61	
b Riemen	1	35	62	
r Wulſt	3 1/3	38 1/3	65 1/3	3 5/8
b Riemen	1	39 1/3		
x Rinneleiſten	6 2/3	46	66 1/3	3 1/3
c Uberſchlag	2	48	73	

Mutulorum inferior faſcia 6 2/3 part. ſuperior 10. part.

ata, utraqve 15. part. longa eſt, interſtitium autem inte
faſcias ſuperiores 20. part. complectitur.

VI. Corintiſche Ordnung

A Seulenſtuhls Fuß	Hö.	Suff.	Aüsl.	Rad
a Grundſtein	25		53 1/4	
p Pfuhl	4	29	51 1/4	2
b Riemen	1	30		
y Rinneleiſten	5	35	46 1/4	2 1/2
b Riemen	1	36		
u Einziehung	1 1/2	37 1/2	44	
b Riemen	1	38 1/2	44 3/4	
p Pfuhl	3	41 1/2		1 1/2
b Riemen	1	42 1/2	44 3/4	
vv Kehlleiſten	2 1/2	45	43 3/4 42 1/2	1 [illegible]
B Würffel	82 1/2		41 1/4	
Deckels				
vv Kehlleiſten	4		42 1/4 44 1/4	2 1/2
b Riemen	1	5	45 1/4	
o Stab	2	7		
r Wulſt.	5	12	48 7/12	5 [illegible]
g Krantzleiſten	4	16	52 1/4	
o Stab	1	17		
vv Kehlleiſten	2	19	52 3/4 53 3/4	

r Holkeiſten	2	21	$55\frac{1}{4}$	$2\frac{1}{2}$
c Überſchlag	$1\frac{1}{2}$	$22\frac{1}{2}$	$56\frac{1}{4}$	
D Seulenfuß	**Hö:**	**Summ**	**Ausl.**	**Rad.**
ff Taffel	10		40	
p Pfuhl	6	16		
o Stab	2	18		
h Riemen	1	19	37	
u Einziehung	3	22	$32\frac{1}{2}$	
b Riemen	1	23	$32\frac{1}{2}$	
o Stab	2	25		
p Pfuhl	5	30		
E Stamm				
o Stab	3			
n Saum	1	4	32	
s Anlauff	4	8		5
r gleichdicke Stam̃	160	168	30	
k verdünnete Stam̃	320	488	25	
r Ablauff	5	493		$6\frac{1}{4}$
n Saum	2	495	$27\frac{1}{2}$	
q Rincken	5	500	30	
F Capital				
y untere Blätter an die Lippen	15			
e die Lippen ſelbſt	5	20	35	
x die oberen Blätter	15	35		

deren Lippen	5	40	40	
nter die Schnecken	6 2/3	46 2/3		
an den mittelpunct				
er kleinen Schneckē	4 3/8	51 1/24	6 1/4	
an den Mittel-				
punct der groſſen	1 3/8	52 5/12	30	
biß über die kleinen	5 1/2	52 1/3		
ſupra volutas minores				
biß über die groſſe	2	59 5/6	40	
ſupra volutas majores				
e Platte biß an dē Anlauf	4	63 5/6	40	
t Anlauff / derſelben	1	65		
b Riemen	1 1/4	66 1/4		
r Wulſt	3 3/4	70	45	
G Unterbalcken				
f Unterſtreiffen	6 3/4		25	
o Stab	1 1/2	8 1/4		
f mitlereſtreiffen	9	17 1/4	25 3/4	
vv Kehlleiſten	2 1/4	19 1/2		
f Obereſtreiffen	12	31 1/2	27 11/12	
a Stab	1 1/2	33		
vv Kehlleiſten	3	36	{ 28 3/4 30 1/8	1 7/8
v Holleiſten	2 1/2	38 1/2	31 1/4	3 1/8
c Uberſchlag	1 1/2	40	32 1/2	

H Borten				
H glatte Borten	26 1/3		25	
t Ablauff	2 2/3	29		3 1/3
b Riemen	1	30	26 1/3	
o Stab	2	32		
l Krantz				
vv Kehlleiſten	4		27 1/3 / 29 1/3	
b Riemen	1	5	30 1/3	
o Stab	1 2/3	6 2/3		
r Wulſt.	5	11 2/3	33 2/3	5 5/12
d 1. ſtreiffe der ſparren Köpfe biß unter dieſelben	1 1/3	13	35	
der Uberreſt des Streiffens	8 1/3	21 1/3		
vv Kehlleiſten	3	24 1/3		
r Holleiſten	1 1/2	25 5/6		
z Krantzleiſten	7 1/2	33 1/3	62 5/6	
o Stab	1 2/3	35		
vv Kehlleiſten	3 1/3	38 1/3	63 2/3 / 65 1/3	2 1/12
b Riemen	1	39 1/3	66 1/3	
x Rinneleiſten	6 2/3	46		3 1/3
d Uberſchlag	2	48	73	

Mutuli 10. part. latitudinem, 15, longitudinem; 8 ⅓ part. altitudinem, & interſtitium 20. part. reqvirunt. Breviter, omnes omnium ordinum mutuli, tam in hac qvam in ſeqventi tabella a medio unius ad medium alterius numerando, 30. partium diſtantiam ſibi vindicant.

Tabula III.

Sex Ordinum ſecundum ſingula membra.

Hæc tabula, pariter atqve præcedens ductu principiorum incomparabilis Goldmanni computata, ſeqventibus tamen notatu dignisſimis ab eadem differt.

1. Præcedens tabula binos qvosvis ordines altitudine & partium proportione ſimiles ſiſtit, ut Toſcanus Dorico, Jonicus Teutonico, Romanus Corinthiaco qvoad menſuras generales penitus æqvales ſint. Hic qvævis columna una cum Stylobata atqve Trabeatione ſua, peculiares ſibi menſuras vindicat, coeterum qvoad diſtributionem Stylobatæ, Columnæ & Trabeationis in genere obſervata regula Barozzii de Vignola.

2. Præcedens tabula Ordines tenerrimos atqve membrorum multitudine & ſubtilitate ditisſimos ſiſtit. Ex adverſo præſens pauciora eaqve grandiora membra cuivis ordini tribuit.

3. Cœterũ de utraq; tabula, qvod præfiſcini dixerim iis qv penitiꝰ in ſcientiã Architecturæ penetrarunt, ingenue polliceri poſſũ, ſi adhibito ingenii acumine modo præcedenti modo præſenti, modo utraq; tabula ſimul utantur pro delineandis inventionibus ſuis Architectonicis, ſub ſordido u ita dicam palliolo harum tabellarum] eam Architecturæ perfectionem reperturos eſſe, qvam omnia excellentisſimorum Architectorum volumina; infra peculiari Catalogo recenſita, nulla ratione ſuppeditare poterunt.

4. Hoc inſuper atqve denuo notandum eſt, etſi trabeationem Doricam a qvinqve ſupra adductis diverſam ex abundanti computarim, qvinqve tamen illas ex præcedenti tabella, cum Ordine Dorico in Tabella præſenti exhibito optime combinari poſſe. Id qvod applauſus omnium Architectorum ſine dubio ſecuturus eſſet, ſi qvis Italorum aut Gallorum, non autem Germanus ſe inventionis hujus Auctorem profiteretur.

Seulenſtuhl Stylobata	Hö.	Sum.	Ausl.	Rad.
a Grundſtein	30		48 $\frac{1}{2}$	
b Riemen	1 $\frac{1}{2}$	31 $\frac{1}{2}$	46	
c Holleiſten	6	37 $\frac{1}{2}$	43	7 $\frac{1}{2}$
B Würffel	82 $\frac{1}{2}$		41 $\frac{1}{4}$	
Holleiſten	6		43	7 $\frac{1}{2}$
Riemen	2	8	46	
Krantzleiſten biß an den Ablauff	8	16	51	
Ablauff deſſelben	3 $\frac{1}{2}$	19 $\frac{1}{2}$		4 $\frac{3}{16}$
Uberſchlag	3	22 $\frac{1}{2}$	53	
K Unterſatz	7 $\frac{1}{2}$		41 $\frac{1}{4}$	
Seule Columna				
f Taffel	15		40	
p Pfuhl	15	30		7 $\frac{1}{2}$
n Saum	2 $\frac{2}{3}$		32 $\frac{1}{2}$	
s Anlauf	5 $\frac{1}{3}$	8		6 $\frac{17}{18}$
i gleichd. Stamm	93	101	30	
k verdünnerter ſtam	279	380	24	
t Ablauff	3 $\frac{1}{3}$	383 $\frac{1}{3}$		3 $\frac{1}{3}$
n Saum	1 $\frac{2}{3}$	385	27 $\frac{1}{2}$	
q Rincken	5	390	30	2 $\frac{1}{2}$

h Halß	10		24	
b Riemen	2	12	25 1/2	
r Wulſt	8	20	31 1/4	8 2/3
e Platte biß zum Ablauff	16	26	32 1/2	
t Ablauff	2	28		
c Uberſchlag	2	30	34	
Gebälcke Trabeatio	Hö.	Sum.	Ausl.	Rad.
f Untereſtreiffen	12		24	
f obere Streiffen biß zum Ablauf	12	24	25 1/2	
t Ablauf	3	27		
c Uberſchlag	3	30	28	
H Borten	37 1/2		24	
v Holleiſten	5		25 1/2	6 1/4
b Riemen	1 1/2	6 1/2	28	
r Wulſt	7 1/2	14	33	8 1/2
g Krantzleiſten biß zum Ablauf	10	24	60 3/4	
t Ablauf	2	26		
b Riemen	1 1/2	27 1/2	62 3/4	
d Band	4 1/2	32	64	
x Rinneleiſten	10	42		5
c Uberſchlag	3	45	74	

Doriſche Ordnung.

Seulenſtuhl Stylobata				
a Grundſtein	32		51	
b Riemen	2	34	48	
vv Kehlleiſten	6	40	{ 46 43	3 $\frac{3}{4}$
B Würffel	90 $\frac{3}{4}$		41 $\frac{1}{4}$	
vv Kehlleiſten	6		{ 43 46	3 $\frac{3}{4}$
b Riemen	2	8	48	
g Krantzleiſten biß zu dem Ablauf	8	16	53	
t Ablauff	3 $\frac{1}{2}$	19 $\frac{1}{2}$		
b Riemen	1 $\frac{1}{2}$	21	54 $\frac{3}{4}$	
c Uberſchlag	3	24	56	
K Unterſatz	5 $\frac{1}{4}$		41 $\frac{1}{4}$	
Seule. Columna	**Hö.**	**Sum.**	**Ausl.**	**Rad.**
ff Taffel	10		40	
p Pfuhl	8	18		4
b Riemen	1	19	36	
u Einziehung	4	23	33	{ 1 $\frac{1}{2}$ 2 $\frac{1}{2}$
b Riemen	1	24	34 $\frac{1}{2}$	
p Pfuhl	6	30		3
n Saum	2		33	
s Anlauff	6	8		7 $\frac{1}{2}$

i gleiche Stam̃e	100	108	30	
k verdünnete Stam̃	300	408	24	
t Ablauff	5 1/3	413 1/3		5 2/3
u Saum	1 2/3	415	27 1/2	
q Rincken	5	420	30	2 1/2
h Halß	10		24	
vv Kehlleiſten	3	13	25 27 1/2	1 7/8
b Riemen	1	14	27 1/2	
r Wulſt	6	20	31 1/2	6 1/2
e Platte	5	25	32 1/2	
vv Kehlleiſten	3	28	33 1/2 35	1 7/8
c Uberſchlag.	2	30	36	
Gebälcke, Trabeatio.	Hö:	Summ	Ausl.	Rad:
f Untereſtreiffen	10		24	
f biß an die Zapffen	10	20	25 1/4	
a die Zapffen	4	24	27 2/4	
b Riemen	1	25	27 3/4	
v Holleiſten	3	28	28 3/4	3 3/4
c Uberſchlag	2	30	30 1/4	
Höhen. altitudines				
φ biß an die Spitzẽ der Schlitze in den triglyphen	40 1/2		25 1/4	
ψ biß oben an die ſchlitze	2 1/2	42 1/2		

l biß über den Drey-ſchlitz	2 1/2	45	27 3/4	
d Band	4 1/6	49 1/6	29	
Breiten latitudines				
dim. s halbe Breite eines Schlitzes	2 1/2			
r Breite eines zwiſchen Stabes	5			
dim. l. halbe Breite des gantzē dreyſchlitzes	15			
profund. s Tieffe der Schlitze	2 1/2			
craſsities l. Dicke des dreyſchlitz an der Seite	3 3/4			
v Holleiſten	5		30 1/4	6 1/4
b Riemen	1 1/2	6 1/2	32 3/4	
r Wulſt	6	12 1/2	36 3/4	6 1/2
v Holleiſten	3	15 1/2	37 3/4	
b Riemen	1 1/6	16 2/3	39 1/4	
g Krantzleiſten	9	25 2/3	63 1/2	
v Holleiſten	3	28 2/3	64 1/2	3 3/4
b Riemen	1 1/2	32 1/6	66	
x Rinneleiſten	8	40 1/6		4
c Uberſchläg	2 2/3	42 5/6	74	

Seulenſtuhl Stylobata	Hö:	Sum.	Ausl.	Ra.
a Grundſtein	29 $\frac{2}{3}$		49	
p Pfuhl	5	34 $\frac{2}{3}$		2 $\frac{1}{2}$
b Riemen	2	36 $\frac{2}{3}$	46 $\frac{1}{2}$	
vv Kehlleiſten	5	41 $\frac{2}{3}$	{ 45 / 42 $\frac{1}{2}$	3 $\frac{1}{2}$
B Würffel	95		41 $\frac{1}{4}$	
o Stab	3			
vv Kehlleiſten	5	8	{ 42 $\frac{1}{2}$ / 45	3 $\frac{1}{2}$
b Riemen	2	10	46 $\frac{1}{2}$	
g Krantzleiſten	8	18	53	
v Holleiſten	4	22	54	5
c Uberſchlag	3	25	56	
K Unterſatz	5		41 $\frac{1}{4}$	

Seule. Columna	Hö.	Summ.	Ausl.	Rad.
ff Taffel	10		40	
p Pfuhl	8	18		4
b Riemen	1	19	36	
u Einziehung	4	23	31 $\frac{1}{2}$	{ 1 $\frac{1}{2}$ / 2 $\frac{1}{3}$
b Riemen	1	24	33	
p Pfuhl	6	30		3
o Stab	1 $\frac{1}{2}$			
n Saum	1 $\frac{1}{2}$	3	31 $\frac{1}{2}$	

Anlauff	5	8		7 7/12
leichdicke Stam̃	1 05 1/8	113 1/8	30	
verdünnete Stam̃	3½ 5 7/8	428 1/2	24 1/2	
Ablauff	4	432 1/2	1	5 1/3
Saum	2 1/2	435	27 1/2	
Rincken	5	440	30	2 1/2
Fruchtſchnur	3 3/4			
glockleiſtens über- reſt	3 3/4	7 1/2	3 1	3 3/8
Riemen	1 1/2	9	3 1	
&c o. Stab und Schnecken Auge	3	12	23 1/3	
Wulſt	6	18	35 1/2	6 1/2
pra volutas über die Schnecken	5	23	40	
d vv Uberreſt der Platte	1	24	41	
Kehlleiſten	4	28	42 / 44	2 1/2
Uberſchlag.	2	30	45	
Bälcke. Trabeatio				
Untereſtreiffen	12		24 1/2	
Holleiſten	3	15	25 1/2	3 3/4
Obereſtreiffen	18	33	27	
Kehlleiſten	5	38	28 1/4 / 30 3/4	3 1/8
Uberſchlag	3 2/3	41 2/3	32	

	Hö:	Sum	Ausl.	Ra.
l glatte Borten	29 $\frac{7}{12}$		24 $\frac{1}{2}$	
Ablauff	2 $\frac{1}{2}$	32 $\frac{1}{12}$		
Saum	1 $\frac{1}{4}$	33 $\frac{1}{3}$	27 $\frac{1}{2}$	
v Kehlleiſten	5		{ 28 $\frac{1}{2}$ / 31	3 $\frac{1}{8}$
Riemen	1 $\frac{1}{4}$	6 $\frac{1}{4}$	32 $\frac{1}{4}$	
l Band der Zahnſchnitte	7 $\frac{1}{2}$	13 $\frac{3}{4}$	36 $\frac{3}{4}$	
Riemen	1 $\frac{1}{4}$	15	38	
Wulſt	6 $\frac{1}{4}$	21 $\frac{1}{4}$	42	6 $\frac{3}{4}$
Holleiſten	3	24 $\frac{1}{4}$	{ 43 / 44 $\frac{1}{2}$	
Krantzleiſten biß zu den Ablauf	8	32 $\frac{1}{4}$	64	
der Ablauff	2	34 $\frac{1}{4}$		
Riemen	1 $\frac{1}{2}$	35 $\frac{3}{4}$	65 $\frac{1}{2}$	
Stab	3	38 $\frac{3}{4}$		
Rinneleiſten	9	47 $\frac{3}{4}$	74 $\frac{1}{2}$	4 $\frac{1}{2}$
Uberſchlag	2 $\frac{1}{4}$	50	74 $\frac{1}{2}$	

Teutſche Ordnung.

Seulenſtuhl Stylobata	Hö:	Sum	Ausl.	Ra.
a Grundſtein	28 $\frac{3}{4}$		53 $\frac{1}{4}$	
b Riemen	2	30 $\frac{3}{4}$	52 $\frac{1}{4}$	
y Rinneleiſten	8	38 $\frac{3}{4}$		4 $\frac{1}{8}$
b Riemen	1 $\frac{1}{4}$	40	46 $\frac{1}{4}$	
vv Kehlleiſten	5	45	{ 45 / 42 $\frac{1}{2}$	3 $\frac{1}{8}$

B Würffel	96		41 $\frac{1}{4}$	
t Ablauff	3	99		
b Riemen	1		42 $\frac{3}{4}$	
o Stab	2	3		
w Kehlleiſten	5	8	{43 $\frac{3}{4}$ 46 $\frac{1}{4}$	2 $\frac{1}{2}$
o Riemen	1 $\frac{1}{4}$	9 $\frac{1}{4}$	47 $\frac{1}{2}$	
g Krantzleiſten	8	17 $\frac{1}{4}$	54	
o Stab	2	19 $\frac{1}{4}$		
v Holleiſten	4 $\frac{1}{2}$	23 $\frac{3}{4}$	55	5 $\frac{5}{8}$
c Uberſchlag	3 $\frac{1}{4}$	27	56 $\frac{1}{4}$	
Seule. Columna.				
ff Taffel	10		40	
p Pfuhl	6	16		3
b Riemen	1	17	37	
y Rinneleiſten	4	21		2 1 $\frac{1}{2}$
b Riemen	1	22	34	
u Einziehung	3	25	31 $\frac{1}{2}$	{1 2
b Riemen	1	26	32 $\frac{1}{2}$	
p Pfuhl	4	30		2
o Stab	2			
n Saum	3	5	31 $\frac{1}{2}$	
s Anlauff	3	8		3 $\frac{3}{4}$
i gleichdicke Stam̃	150	158	30	
k verdüñete Stam̃	300	458	24 $\frac{1}{2}$	
t Ablauff	4 $\frac{1}{2}$	463		6 $\frac{1}{4}$

ı Saum	2 $\frac{1}{2}$	465	27 $\frac{1}{2}$	
ꝗ Rincken	5	470	30	2 $\frac{1}{2}$
Capital. Capitulum				
t Ablauff	8 $\frac{1}{4}$		25	
n Saum	1 $\frac{1}{4}$	9 $\frac{1}{2}$	31	
o Stab und unter die groſſe Schnecken	2 $\frac{1}{2}$	12	32 $\frac{1}{2}$	
r Wulſt	6	18	35	
ad 9 biß an das Centrum der groſſen ſchnecken	1 $\frac{7}{8}$	19 $\frac{7}{8}$	29	
ad 9 biß an das Centrum der kleinen ſchnecken	3 $\frac{3}{8}$	23 $\frac{1}{4}$	64	
ſupra volutas über die Schnecken	6 $\frac{3}{4}$	30		
e Höhe der Platte	4	34	40	
vv der Kehlleiſten	4	38	41 $\frac{1}{2}$ / 43 $\frac{3}{4}$	
c der Überſchlag	2	40	45	
Gebälcke. Trabeatio.				
f Untereſtreiffen	12		24 $\frac{1}{2}$	
o Stab	3	15		1 $\frac{1}{2}$
f Oberſtreiffen	18	33	26	
b Riemen.	1	34	27	
o Stab	2 $\frac{1}{2}$	36 $\frac{1}{2}$		1 $\frac{1}{4}$
vv Kehlleiſten	5	41 $\frac{1}{2}$	28 $\frac{1}{2}$ / 30 $\frac{3}{4}$	2 $\frac{1}{2}$
c Überſchlag	3 $\frac{1}{2}$	45	32	
H Borten	28 $\frac{1}{2}$		24 $\frac{1}{2}$	
t Ablauf	5 $\frac{1}{2}$	34		6 $\frac{7}{8}$

1 Saum	2	36	27 1/4	
vv Kehlleiſten	5		{ 28 1/2 31	3 1/8
b Riemen	1 1/4	6 1/4	32 1/4	
t Band	7 1/2	13 3/4	36 3/4	
b Riemen	1 1/4	15	38	
o Stab	2 1/2	17 1/2		
r Wulſt	6 1/4	23 3/4	42 1/2	6 1/4
vv Kehlleiſten	2 1/2	26 1/4	{ 43 1/4 44 1/2	
b Riemen	1/2	26 3/4	45 1/2	
g Krantzleiſten	10	36 3/4	71	
vv Kehlleiſten	4	40 3/4	{ 72 1/4 74 1/4	2 1/2
b Riemen	1 1/4	42	75 1/2	
x Rinneleiſten	9	51		4 1/2
c Uberſchlag	3	54	84 1/2	
Römiſche Ordnung.				
Seulenſtuhl, Stylobata.				
a Grundſtein	30		53 1/4	
b Riemen	1	31	51 1/4	
y Rinneleiſten	8	39		4 1/6
o Stab	2	41		
b Riemen.	1 1/2	42 1/2	46 1/4	
vv Kehlleiſten	5	47 1/2	{ 45 42 1/2	3 1/8

	Hö.	Summ.	Ausl.	Rad.
B Würffel	103 $\frac{1}{8}$		41 $\frac{1}{4}$	
vv Kehlleiſten	5		{ 42 $\frac{1}{2}$ 45	3 $\frac{1}{8}$
ɔ Riemen	1 $\frac{1}{4}$	6 $\frac{1}{4}$	46 $\frac{1}{4}$	
r Wulſt	6	12 $\frac{1}{4}$	50 $\frac{1}{4}$	6 $\frac{1}{2}$
g Krantzleiſten	8	20 $\frac{1}{4}$	55 $\frac{1}{4}$	
ɔ Stab	2	22 $\frac{1}{4}$		
vv Kehlleiſten	4	26 $\frac{1}{4}$	{ 56 $\frac{1}{4}$ 58 $\frac{1}{4}$	2 $\frac{1}{2}$
c Uberſchlag	2 $\frac{1}{4}$	28 $\frac{1}{2}$	59 $\frac{1}{4}$	

Seule. Columna.	Hö.	Summ.	Ausl.	Rad.
ff Taffel	10		40	
p Pfuhl	6	16		3 [illegible]
a Stab	3	19	37	
b Riemen	1	20	35 $\frac{1}{2}$	
u Einziehung	4	24	31 $\frac{1}{2}$	{ 1 $\frac{1}{2}$ 2 $\frac{1}{2}$
b Riemen	1	25	33	
p Pfuhl	5	30		2 $\frac{1}{2}$
o Stab	3			
n Saum	2	5	31	
s Anlauff.	3	8		3 $\frac{1}{4}$
i gleichdicke Stam̃	153 $\frac{1}{3}$	161 $\frac{1}{3}$	39	
k verdün̄ete Stamm	306 $\frac{2}{3}$	468	25	
t Ablauff	5	473		6 $\frac{1}{4}$
n Saum	2	475	27 $\frac{1}{2}$	

q Rincken	5	840	30	2 1/2
r biß an die unter Lippen	12			
p die untere Blätter	3	15	35	
r biß an die ober Lippen	10	25		
p die obere Blätter	5	30	40	
m Fruchtſchnuhr	3	33		
ad b biß über den Keſſel	4 1/2	37 1/2		
b Riemen	1 1/2	39	31	
a & λ Stab und Schnecken Auge	3	42	23 1/3	
r Wulſt	6	48	35 1/2	6 1/2
e Platte und biß über die Schnecken	6	54	40	
t Ablauff	1	55		
b Riemen	1 1/4	56 1/4	41	
r Wulſt	3 3/4	60	45	4 1/16
Gebälcke. Trabeatio				
f Untereſtreiffen	9		25	
o Stab	2 1/2	11 1/2		1 1/4
f mitlereſtreiffen	10	21	25 1/4	
o Stab	3	24		
x Obereſtreiffen	12	36	27 3/4	
b Riemen	1 1/4	37 1/4	29	

o Stab	$2\frac{3}{4}$	$40\frac{3}{4}$		
vv Kehlleiſten	4	$44\frac{3}{4}$	$\left\{\begin{array}{l}30\frac{3}{8}\\32\frac{3}{8}\end{array}\right.$	$4\frac{11}{16}$
c Uberſchlag	$3\frac{1}{2}$	$47\frac{1}{2}$	34	
H Borten	36		25	
o Stab	2	38		
vv Kehlleiſten	4		$\left\{\begin{array}{l}26\\28\end{array}\right.$	$2\frac{1}{2}$
b Riemen	$1\frac{1}{4}$	$5\frac{1}{4}$	29	
o Stab	$2\frac{1}{2}$	$7\frac{3}{4}$		
r Wulſt.	6	$13\frac{3}{4}$	33	$6\frac{1}{2}$
d e an die Sparren Köpfe	$1\frac{1}{4}$	15		
f e Uberreſt des untern Streiffen	4	19	34	
v s Holleiſten	2	21	$34\frac{1}{2}$	$2\frac{1}{2}$
f s obere Streiffen	6	27	$35\frac{1}{2}$	
vv e Kehlleiſten	3	30	$\left\{\begin{array}{l}36\\37\frac{1}{2}\end{array}\right.$	
g Krantzleiſten	9	39	$71\frac{1}{3}$	
b Riemen	1	40	$72\frac{1}{3}$	
r Wulſt	4	44	75	$4\frac{1}{3}$
b Riemen	1	45	76	
Rinneleiſten	8	53		4
b Riemen	1	54	84	
c Uberſchlag	3	57	85	

Seulenſtuhl Stylobata	Hö:	Summ	Auſl.	Rad:
Grundſtein	3 1½		52	
Stab	3	34½		1½
Riemen	1	35½	50½	
Kinnleiſten	7½	43	—	3⅛
Stab	2	45		
Riemen.	1	46	45½	
Kehlleiſten	4	50	{44½ 42½	2½
Saum	1½		41½	
Anlauf	3	4½		
Würffel	111	115½	40	
Ablauff	3	118½		
Saum	1½	120	41½	
Kehlleiſten	4		{42½ 44½	2½
Riemen	1	5	45½	
Stab	2	7		
Wulſt.	5	12	46⅚	5 5/12
Krantzleiſten	8	20	54½	
Stab	1½	21½		
Kehlleiſten	4	25½	{55½ 57½	2½
Holleiſten	3	28½	58½	3¾
Uberſchlag	1½	30	60	

Seule. Columna	Hö.	Sum̃.	Ausl.	Rad.
ff Taffel	10		40	
p Pfuhl	6	16		3
o Stab	2	18	37	
b Riemen	1	19	36	
u Einziehung	3	22	$32\frac{3}{4}$	{ 1 { 2
b Riemen	1	23	$33\frac{1}{2}$	
o Stab	2	25		
p Pfuhl	5	30		$2\frac{1}{2}$
o Stab	3			
n Saum	1	4	32	
s Anlauf	4	8		5
i gleichdicke Stam̃	160	168	30	
k verdüñete Stamm	320	488	25	
t Ablauf	5	493		$6\frac{1}{4}$
n Saum	2	495	$27\frac{1}{2}$	
q Rincken	5	500	30	$2\frac{1}{2}$
r untere Blätter an die Lippen	15			
ε die Lippen ſelbſt	5	20	35	
ʓ obere an die Lippen	15	35		
ε die Lippen ſelbſt	5	40	40	
ſub. volutas unter die Schnecken	$6\frac{2}{3}$	$46\frac{2}{3}$		

...an den mittelpunct				
...er kleinen Schnecke	$4\frac{1}{3}$	$50\frac{5}{6}$		
...an dē Mittelpunct				
der groſſen Schn..	$1\frac{1}{2}$	$52\frac{1}{3}$		
...upra volutas minores				
...iß über die kleinen	$5\frac{1}{2}$	$57\frac{5}{6}$		
...upra volutas majores		$59\frac{5}{6}$	40	
...über die groſſen	2			
...Platte biß an dē Anlauff	4	$63\frac{5}{6}$	40	
...Anlauff ſelbſt	1	65		
...Riemen	$1\frac{1}{4}$	$66\frac{1}{4}$		
...r Wulſt	$3\frac{3}{4}$	70	45	
Gebälcke Trabeatio				
...f Untereſtreiffen	9		25	
...o Stab	2	11		
...f mitlere Streiffen	12	23	26	
...vv Kehlleiſten	$2\frac{1}{2}$	$25\frac{1}{2}$	$26\frac{3}{4}$ / 28	$1\frac{3}{16}$
...f obere Streiffen	15	$40\frac{1}{2}$	$28\frac{3}{4}$	
...o Stab	$1\frac{2}{3}$	$42\frac{1}{6}$		
...vv Kehlleiſten	$3\frac{1}{3}$	$45\frac{1}{2}$	$30\frac{1}{6}$ / $31\frac{5}{6}$	$2\frac{11}{15}$
...c Uberſchlag	2	$47\frac{1}{2}$	33	
...vverkehrte Holleiſten	$2\frac{1}{2}$	50	$31\frac{3}{4}$	$2\frac{3}{5}$
...H Borten	35		25	
...t Ablauff	2	37		
...n Saum	1	38	26	

o Stab	2	40		
vv Kehlleiſten	4		{ 27 / 29	2½
b Riemen	1¼	5¼	30	
o Stab	2½	7¾		
r Wulſt	6	13¾	34	6½
ad an die Sparren Köpfe	1½	15¼		
s überreſt des ſtreifens	10	25¼	35	
o Stab	1½	26¾		
vv Kehlleiſten	3	29¾	{ 35¾ / 37¾	
v Holleiſten	2	31¾	{ 38 / 39	
g Krantzleiſten	9	40¾	72	
o Stab	2	42¾		
vv Kehlleiſten	4	46¾	{ 73 / 75	2½
b Riemen	1¼	48	76	
x Rinneleiſten	8	56		4
b Riemen	1	57	84	
c Überſchlag	3	60	85	

Mutulorum diſtributio in hac tabella eadem eſt, quam in præcedenti expoſui.

Tabula IV.

Sex diſtinctas proportiones atque menſuras exhibens, ſecundum quas Arcus diſtribui poſſunt.

NB. A. ſignificat altitudinem columnæ B. altitudinem camilli aut Stylobatæ. C. altitudinem Arcus. D. aperturam ſive latitudinem arcus. E. craſſitiem aut potius latitudinem Paraſtatæ. F. diſtantiam Columnarum.

Porro M. indicat Arcus Toſcanos ſine, & N. cum Stylobata conſtructos. O. Doricos ſine & P. cum Stylobatis. Q. Jonicos ſine & R. cum ſtylobatis. S. Teutonicos ſine, T. & cum ſtylobatis. U. Romanos ſine & X. cum ſtylobatis, denique. Y. Corinthiacos ſine & Z. Corinthiacos cum ſtylobatis ſignificat.

	A	B	C	D	E	F
	Toſcaniſche ohne Seulenſtuhl.					
Vignola	14		13	6 1/2	1/2	9 1/2
Palladio	14	2	15 1/3	9 [illegible]	13/15	13 1/2
Scamozzi	15	1	14 2/3	7 11/15	1 1/4	12
Goldmann	16	2	16	8	1	12
Auctor	15	1 1/2	14 15	7 7 1/2	1 1/2 1 1/4	12 12
	Toſcaniſche mit Seulenſtühlen					
Vignola	14	4 2/3	17 1/2	8 3/4	1	12 3/4
Palladio						
Scamozzi	15	3 3/4	17 1/12	8 2/3	1 1/3	13 1/3
Goldmann	16	6	20	10	1	14
Auctor	15	5	18 18 2/3	9 9 1/3	1 1/2 1 1/3	14 14

O Doriſch ohne Seulenſtuhl

Vignola	16		14	7	1/2	10
Palladio						
Scamozzi	17	1	16 2/3	8 11/30	1 1/15	12
Goldmann	16	2	16	8	1	12
Auctor	16	1 1/3	15	7 1/2	1 1/4	12
			16	8	1	12

P Doriſch mit Seulenſtuhl

Vignola	16	5 1/3	20	10	1 1/2	15
Palladio	17 1/3	4 2/3	20 1/2	11 4/15	1 2/15	15
Scamozzi	17	4 1/2	19 5/6	10 1/2	1 1/4	15
Goldmann	16	6	20	10	1	14
Auctor	16	5 1/3	20	10	1	14
			20	10	1	14

Q Joniſche ohne Seulenſtuhl

Vignola	18		17	8 1/2	1/2	11 1/2
Palladio						
Scamozzi	17 1/2	1	16 5/6	7 2/3	1	11 2/3
Goldmann	16	2	16	8	1	12
Auctor	16 2/3	1 1/3	15 2/3	7 5/6	1 1/12	12
			16 2/3	8	1	12

Joniſche mit Seulenſtuhl.						
ignola	18	6	22	11	1	15
alladio	18	$5\frac{4}{15}$	22	$10\frac{40}{60}$	$\frac{53}{60}$	$14\frac{7}{12}$
camozzi	$17\frac{1}{2}$	5	$20\frac{1}{2}$	$9\frac{2}{3}$	$1\frac{1}{6}$	14
oldmann	16	6	20	10	1	14
uctor	$16\frac{2}{3}$	$5\frac{5}{9}$	21 21	$10\frac{1}{2}$ 10	$1\frac{1}{4}$ 1	15 14

Teutſch ohne Seulenſtuhl.	A	B	C	D	E	F
Vignola						
Palladio						
Scamozzi						
Goldmann						
Auctor	18	$1\frac{1}{3}$	16 18	8 8	1 1	12 12

Teutſch mit Seulenſt.						
Vignola						
Palladio						
Scamozzi						
Goldmann						
Auctor	18	6	22 22	11 10	1 1	15 14

Römiſch ohne Seulenſtuhl.						
Vignola	20		18	9	$\frac{1}{2}$	12
Palladio						

Scamozzi	19 1/2	1	18 5/6	9 1/6	11/12	13
Goldmann	20	2	20	10	1	14
Auctor	19	1 1/2	18 18 4/9	9 8 1/3	1 5/6	13 12

x Römiſch mit Seulenſt.

Vignola	20	6 2/3	25	12	1	16
Palladio	20	6 2/3	24 2/5	9 7/10	1 2/5	14
Scamozzi	19 1/2	6	23 1/2	11	1 1/12	15
Goldmann	20	6	24	12	1	16
Auctor	19	6 1/3	24 25 1/2	12 10	1 1	16 14

y Corintiſch ohne Seulenſtuhl.

	A	B	C	D	E	F
Vignola	20		18	9	1/2	12
Palladio						
Scamozzi	20	1	19 1/3	8 4/15	13/15	12
Goldmann	20	2	20	10	1	14
Auctor	20	1 1/2	19 20 3/5	9 1/2 8 1/2	3/4 3/4	13 12

z Corinthiſch mit Seulenſtuhl.

Vignola	20	6 2/3	25	12	1	16
Palladio	19	5	22 1/3	9 1/5	9/10	13
Scamozzi	20	6 2/3	24 2/3	10	1	14
Goldmann	20	6	24	12	1	16
Auctor	20	6 2/3	24 24	12 10	1 1	16 14

Omnes numeri Modulos integros atqve fractiones eorum valent. Cum qvatuor celebrium Architectorum ar-

ibus, à me qvoqve diſtributos eosqve duplicis generis ódidi. Primum genus per omnes ordines altitudinem, ertuæ arcus, latitudini duplam methodo Barozzi & oldmanni reddit. Poſterius vero genus arcus propor- one altitudinis ad latitudinem creſcente, methodo Pal- dii & Scamozzii ſiſtit.

Tabulæ Fortificatoriæ.

Uſus harum tabularum in genere hic eſt. Sumto inde adio deſcribitur circulus atqve in tot partes circumfe- entia ejus dividitur, qvot propugnacula deſiderantur, roductisqve e centro per angulos polygoni radiis, ex ictis angulis polygoni, in easdem lineas extrinſecus li- ea Capitalis, & in latera polygoni utrinqve collum, gal- ice gorge dictum, defigitur. Qvo facto ope brevium regu- arum ſingulis tabulis ſubjungendarum; Facies propugna- uli, & Ala gallis Flanc dicta facillimo negotio delineari oſſunt. Porro circa tabulas ſeqventes in genere notan- lum, numeros omnes punctis diſcerni, ut conſtet nu- neros ante punctum conſtitutos ſignificare per- icas Rhinlandicas, poſt punctum reperiundos ſi ſolitarii int pedes, ſi duplicati ſiniſtimas notas pedes, dextimas erp pollices ſignificare. Intelliges autem pedes atqve ollices geometricos, decem horum, pedem & pedibus lecem, perticam Rhinlandicam conſtituentibus.

B. Scheiters mittel Royal 1

	o.ſ	o.ſ	o.ſ	o.ſ
IV.	42. 9	20. 6	12. 0	25. 2
V:	54. 4	22. 1	14. 5	25. 3
VI.	66. 8	23. 2	16. 6	25. 4
VII.	79. 9	23. 8	18. 3	25. 5
VIII.	93. 5	24. 1	19. 7	25. 6
IX.	106. 2	25. 3	20. 8	25. 6
X.	119. 5	26. 1	21. 9	25. 7
XII.	146. 0	26. 8	23. 2	25. 7
XV.	206. 2	27. 8	24. 8	25. 9
XX	282. 0	28. 6	26. 9	26. 0
Lin. Recta		30. 0	30. 0	27. 0

IV.	48. 1	22. 5	15. 8	30. 5
V.	61. 2	23. 8	18. 7	30. 8
VI.	75. 0	24. 9	20. 9	31. 0
VII.	89. 6	25. 6	22. 8	31. 2
VIII.	104. 7	25. 9	24. 3	31. 3
IX.	118. 9	27. 2	25. 5	31. 5
X.	133. 6	28. 1	26.6	31. 7
XII.	164. 3	28. 9	28. 3	31. 8
XV.	228. 8	29. 8	29. 6	32. 0
XX.	316. 1	30. 8	30. 4	32. 3
Lin. Recta		32. 0	32. 0	33. 0
	Radius	Capital	Gorge	Face

Blondels kleine Manier. III

	gr. min.	gr. min.	o./	o./	o./	o./
IV	90	60	37. 7	22. 2	12. 3	22. 0
V	108	66	45. 8	26. 5	14. 5	22. 5
VI	120	70	55. 7	29. 3	16. 0	23. 5
VII	128.35	75.51	67. 0	31. 0	19. 0	24. 0
VIII	135	75	78. 7	32. 2	21. 5	24. 5
IX	140	76.40	91. 0	33. 8	23. 2	24. 7
X	144	78	103. 0	34. 5	24. 7	25. 5
XII	150	80	128. 8	35. 5	27. 0	26. 0
XV	156	82	167. 3	37. 2	29. 0	26. 5
XX	162	84	233. 0	38. 5	32. 7	27. 2
L.R.		90		40. 0	42. 5	30. 0

groſſe Manier IV.

	Angulo Polyg.	Angulo propugn.				
IV	90	45	44. 7	26. 0	14. 2	25. 7
V	72	54	54. 0	31. 0	16. 7	26. 8
VI	60	60	65. 7	34. 2	19. 5	27. 5
VII	51.25	64.17½	79. 0	36. 3	22. 2	28. 0
VIII	45	76.30	93. 0	37. 7	25. 3	29. 0

IX	40	70	112. 0	39. 2	27. 0	29. 5
X	36	72	121. 5	40. 3	29. 0	30. 0
XII	30°	75	151. 7	41. 2	31. 5	30. 5
XV	24	78	197. 2	43. 2	33. 7	31. 3
XX	18	81	274. 7	44. 7	38. 2	32. 0
L. R.				50. 0	50. 0	35. 2
	Angulꝰ Centri	Angulꝰ dim.pol	Radius	Capital	Gorge	Face

Vaubans Manier. V

	Radius	Capit.	Gorge	Face
	o./	o./	o./	o./
IV	40. 5	22. 9	9. 2	25. 0
V	53. 7	23. 0	12. 5	25. 0
VI	65. 2	24. 8	13. 6	25. 0
VII	85. 6	23. 5	15. 6	25. 0
VIII	94. 9	23. 0	17. 1	25. 0
IX	108. 9	22. 6	18. 0	25. 0
X	123. 4	22. 2	19. 0	25. 0
XII	151. 8	22. 0	20. 3	25. 0
XV	194. 7	21. 7	21. 2	25. 0
XX	266. 4	21. 2	21. 9	25. 0
L.R.		21. 0	26. 0	25. 0

VI. Christ. Heers: Vauboniſche Man.

IV.	48. 4	25. 0	12. 0	26. 8
V.	59. 2	25. 0	13. 9	25. 3
VI.	71. 5	25. 0	15. 2	24. 0
VII	82. 3	25. 0	15. 9	23. 2
VIII	95. 0	25. 0	16. 6	22. 2
IX	108. 0	25. 0	17. 1	21. 6
X	120. 0	25. 0	17. 4	21. 1
XII	142. 7	25. 0	17. 8	20. 2
XV	178. 7	25. 0	18. 3	19. 4
XX	239. 0	25. 0	18. 7	18. 4
L.R.		25. 0	20. 0	15. 0

Uſus harum Tabularum.

Factis, qvæ a limine tabularum Fortificatoriarum docuimus, ex invento puncto capitali, ad puncta colli juxta proxime ſeqventes angulos polygoni utrinqve collocata ducuntur lineæ rectæ, qvæ vocantur lineæ defenſionis, & in easdem, diſtantiâ e tabulis ſumta & e puncto capitali utrinqve poſita, definiuntur Facies propugnaculi, qvo facto ſimul Alæ ſponte naſcuntur.

Tabula VII. Radiorum prodelineando

Modo muniendi belgico Melderi, cujus polygonum internum, non minus 50, nec majus 66. perticis Rhinlandicis aſſumi, poteſt.

innere polyg.	IV.	V.	VI.	VII.	VIII	IX.	X.
50	35.3	42. 5	50. 0	57. 5	65. 3	73. 0	80. 8
52	36.7	44. 2	52. 0	59. 8	67. 9	76. 0	84. 0
54	38.1	45. 9	54. 0	62. 1	70. 5	79. 0	87. 2
56	39.5	47. 6	56. 0	64. 4	73. 1	82. 0	90. 5
58	40.9	49. 3	58. 0	66. 7	75. 7	84. 9	93. 7
60	42.4	51. 0	60. 0	69. 1	78. 4	87. 7	97. 0
62	43.8	52. 7	62. 0	71. 4	81. 0	90. 6	100. 3
64	45.2	54. 4	64. 0	73. 7	83. 6	93. 5	103. 5
66	46.6	56. 1	66. 0	76. 0	86. 2	96. 4	106. 7
	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Tabula VIII. Radiorum dodecagoni, & reliqvarum linearum pro omnibus polygonis.

innere Polyg.	Rad. XII.	Cap.	Gorge	Flanc.
50	96. 6	19. 2	10. 0	8. 3
51		19. 6	10. 2	8. 5
52	100.4	19. 9	10. 4	8. 7
53		20. 3	10. 6	8. 8

54	104. 3	20.7	10.8	9. 0
55		21.1	11.0	9. 3
56	108. 1	21.5	11.2	9. 5
57		21.9	11.4	9. 7
58	112. 0	22.2	11.6	9. 9
59		22.6	11.8	10.0
60	116. 0	23.0	12.0	10.2
61		23.4	12.2	10.4
62	119. 8	23.7	12.4	10.6
63		24.1	12.6	10.7
64	123. 7	24.5	12.8	10.8
65		24.9	13.0	10.9
66	127. 5	25.2	13.2	11.0
Polygonum internum	0.	0	0	0

Uſus duarum tabularum proxime præcedentium huc redit. Si qvis antecedentes muniendi modos eligere nolit, qvia ala ſecunda ſive ala cortinæ carent, nec facile vallo inferiori apte ſe cingi patiuntur, hæ duæ tabulæ deſideriis ejus ſatisfacient. Primum eligenda eſt longitudo Polygoni interni ſecundum magnitudinem & naturam propoſiti munimenti. Illa in tabulæ ſeptimæ & octavæ ſerie prima qvæſita, e priori radium deſcribendi circuli, e poſteriori vero lineam capitalem, collum & alam ſuppeditabit. Factis poſtea, qvæ à limine tabularum docuimus, & ita deſcriptis capitalibus & collis, è punctis collum terminantibus erigendæ ſunt perpendiculares, & in his deſignanda venit longitudo Alæ, unde Facies propugnaculi ſponte reſultat. Notandum eſt, qvod radii non ſolum pro magnitudine polygonorum internorum, ſed etiam pro numero eorum creſcant, reliqvæ vero lineæ tantum pro magnitudine polygonorum.

E. Heers erſte Holländiſche Manier. VIIII.

	Radius	Capital	Gorge	Flanc.
IV.	44. 8	16. 6	9. 7	6. 9
V.	55. 1	17. 8	10. 4	7. 4
VI.	65. 8	18. 7	10. 9	7. 8

VII	76. 8	19.5	11.3	8. 1
VIII	88. 2	20.2	11.8	8. 4
IX	99. 6	20.7	12.0	8. 6
X	111.0	21.1	12.3	8. 8
XII	134.0	21.9	12.7	9. 1
XV	170.0	22.7	13.2	9. 4
XX	228.0	23.4	13.7	9. 8
L.R.		26.6	15.4	11.1

X. E. Heers ander Holländiſche Manier.

IV	43.7	19.6	11.4	8. 1
V	54.0	21.0	12.2	8. 7
VI	64.8	22.2	12.9	9. 2
VII	74.9	23.0	13.4	9. 5
VIII	87.1	23.8	13.9	9. 9
IX	98.5	24.5	14.2	10.1
X	110.0	25.0	14.5	10.4
XII	133.5	25.9	15.0	10.7
XV	168.0	26.8	15.6	11.1
XX	222.4	27.8	16.2	11.5
L.R.		31.5	18.3	13.1

Uſus harum tabularum cum praecedentibus duabus idem eſt.

Tabula XI. novi modi muniendi ab Auctore tabularum inventi.

Angulus Polygoni Rechtwinckel		Radius	Innere polyg.	Capital	Gorg[illegible]
VI. Eck	120	53.5.9	53.59	26.81	9.8
	121		54.15	26.68	10.0[illegible]
	122		54.71	26.55	10.3[illegible]
	123		55.27	26.42	10.6
	124		55.83	26.19	10.9
	125		56.39	26.06	11.2
	126		56.95	25.93	11.4
	127		57.51	25.80	11.7
VII.	128	66.8.5	58.08	25.77	12.[illegible]

	129		58.64	25.68	12.26
	130		59.20	25.59	12.48
	131		59.76	25.50	12.71
	132		60.32	25.41	12.93
	133		60.88	25.32	13.15
	134		61.44	25.23	13.48
VIII	135	79.39	62.00	25.13	13.60
	136		62.30	25.05	13.83
	137		62.61	24.96	14.06
	138		62.91	24.88	14.29
	139		63.22	24.79	14.52
X	140	92.87	63.52	24.71	14.76
	141		63.97	24.64	14.98
	142		64.43	24.56	15.21
	143		64.88	24.49	15.44
I	144	105.23	65.34	24.41	15.67
	145		65.83	24.34	15.91
	146		66.32	24.27	16.16
…ngulus Polygoni …echlwinckel.		Radius	Pol.int.	Capital	Gorge
…n. Eck	147	116.50	66.82	24.20	16.41
	148		67.21	24.15	16.60
	149		67.60	24.10	16.80
III	150	131.73	68.00	24.04	17.00
	151		68.42	23.98	17.21
	152		68.85	23.93	17.42
	153		69.27	23.88	17.64
	154		69.70	23.83	17.85
	155		70.12	23.79	18.06
V.	156	169.56	70.56	23.74	18.24
	157		70.99	23.70	18.49
	158		71.43	23.67	18.70
	159		71.86	23.63	18.91
	160		72.29	23.59	19.12
	161		72.73	23.55	19.33

	162	133.49	73.18	23. 51	19. 54
	163		73.58	23. 50	19. 74
	164		73.98	23. 48	19. [illegible]
	165		74.38	23. 46	20. [illegible]
	166		74.78	23. 45	20. [illegible]
	167		75.18	23. 43	20. [illegible]
	168		75.58	23. 41	20. 76
	169		75.98	23. 40	20. 96
	170		76.38	23. 38	21. 16
	371		76.78	23. 36	21. 37
	172		77.18	23. 35	21. 57
	173		77.58	23. 33	21. 77
	174		77.98	23. 31	21. 98
	175		78.38	23. 30	22. 18
	176		78.78	23. 28	22. 38
	177		79.18	23. 26	22. 59
	178		79.58	23. 25	22. 79
	179		79.98	23. 23	22. 99
Lin. Rect.	180		80.40	23. 20	23. 20

Explicatio hujus tabulæ.

1. Numeri verſus ſiniſtram puncto ſeparati perticas, reliqvi verſus dextram pollices ſignificant ceu ſupra monui.

2. Non ſolum pro angulis polygonorum regularium, ſed pro omnibus aliis ſimul computatæ ſunt lineæ ad delineandum imprimis neceſſariæ, ut qvivis cuiqve angulo munienti loci irregularis conveniens propugnaculum aptare poſſit.

3. Videtur primo huic inventioni vitio verti poſſe, qvod neqve qvadratum neqve pentagonum ex ea formari poſſit. Verum ſi pagani methodum reliqvæ prærogativæ ſingulares, applauſu dignum reddidere; qvæ qvadratum non admittit, adhuc inſigniora inventionis meæ commoda, veniam ipſi facillime impetrabunt.

4. Qvod præcipuum vero munimentorum reqviſitum attinet, ut nempe lineæ defendentes, lineas defendendas notabiliter ſuperent, ſervatis tamen decenti angulorum defenſorum magnitudine, atqve ſufficienti propugnaculorum ſpacio; præſens inventio reliqvas non obſcure adæqvat ſi non vincit. Polygonum externum conſtanter longitudinem 80. pert. 4. ped. ſervat. Facies propugnaculi, Ala, Ala cortinæ qvæ præciſe dimidium cortinæ occupat, omnes inter ſe æqvales ſunt longitudine 17. pert.

5. Conſtructio ipſa omni difficultate caret, facta enim præparatione à limine oſtenſa, ducantur a punctis capitalibus utrinqve ad medium polygoni interni lineæ rectæ, & facies 17 perticarum ibidem deſignentur. Ita enim Alæ per ſe reſultabunt.

6. Cæterum nemo Ingeniariorum inficias ibit, hunc muniendi modum plane novum & a reliqvis diſtinctiſſimum, qvod eo magis fateri cogerentur, ſi vallorum foſſarum, operum externorum, & viæ coopertæ diſtributionem eernerent, qva primam hic deſcriptam delineationem perficio.

Tabula XII. Radiorum pro altero muniendi modo ab Auctore invento.

Pol. int.	IV.	V	VI.	VII.	VIII
100	70.7	85.0	100.0	115.2	130.7
102	72.1	86.7	102.0	117.5	133.3
104	73.6	88.4	104.0	119.8	135.9
106	75.0	90.1	106.0	122.1	138.5
108	76.4	91.8	108.0	124.4	141.1
110	77.8	93.5	110.0	126.7	143.7
112	79.2	95.2	112.0	129.0	146.3
114	80.6	96.9	114.0	131.3	148.9
116	82.0	98.6	116.0	133.6	151.5
118	83.4	100.3	118.0	135.9	154.1
120	84.8	102.0	120.0	138.2	156.7

122	86.2	103.7	122.0	140.5	159.3
124	87.6	105.4	124.0	142.8	161.9
126	89.0	107.1	126.0	145.1	164.5
128	90.4	108.8	128.0	147.4	167.1
130	91.8	110.5	130.0	149.6	169.7
132	93.2	111.2	132.0	151.9	172.3
134	94.6	112.9	134.0	154.2	174.9
136	96.0	114.6	136.0	156.5	177.5
	IX.	X.	XII.	XV.	XX.
100	146.2	161.7	193.0	240.5	319.5
102	149.1	164.9	196.8	245.3	325.9
104	152.0	168.1	200.6	250.1	331.3
106	154.9	172.3	204.4	254.9	336.7
108	157.8	174.5	208.2	259.7	342.1
110	160.7	177.7	212.0	264.5	347.5
112	163.6	180.9	215.8	269.3	352.9
114	166.5	184.1	219.6	274.1	358.3
116	169.4	187.3	223.4	278.9	363.7
118	172.3	190.5	227.2	283.7	369.1
120	175.2	193.7	231.0	288.5	374.5
122	178.1	200.9	234.8	293.3	379.9
124	181.0	204.1	238.6	298.1	385.3
126	183.9	207.3	242.4	302.9	390.7
128	186.8	210.5	246.2	307.7	396.1
130	189.7	213.7	250.0	312.5	401.5
132	192.6	216.9	253.8	317.3	406.9
134	195.5	220.1	257.6	322.1	412.3
136	198.4	223.3	261.4	326.9	417.7

Tabula XIII. reliqvarum linearum pro delineando ante dicto modo muniendi.

Polyg.	kleine Gorge	groſſe Gorge	Capital	Face	Flanc.
100	13.9	20.5	35.5	16.0	14.5
102	14.2	21.1	36.2	16.3	14.8

	collũ mino9	collum majus	Capitalis	Facies	Ala
04	14. 5	21. 6	36. 9	16. 7	15. 1
06	14. 8	22. 1	37. 6	17. 0	15. 4
08	15. 0	22. 6	38. 3	17. 4	15. 7
10	15. 2	23. 1	39. 0	18. 1	16. 0
12	15. 4	23. 6	39. 7	18. 4	16. 3
14	15. 6	24. 0	40. 4	18. 8	16. 6
16	15. 8	24. 4	41. 1	19. 1	16. 9
18	16. 0	24. 8	41. 8	19. 4	17. 2
20	16. 2	25. 2	42. 5	19. 7	17. 5
22	16. 4	25. 6	43. 2	20. 0	17. 8
24	16. 6	26. 0	43. 9	20. 3	18. 1
26	16. 8	26. 4	44. 6	20. 6	18. 4
28	17. 0	26. 8	45. 3	20. 9	18. 7
30	17 $\frac{1}{12}$	27. 1	46. 0	21. 2	19. 0
32	17. 3	27. 4	46. 7	21. 5	19. 3
34	17. 4$\frac{1}{2}$	27. 7	47. 4	21. 8	19. 6
36	17. 6	28. 0	48. 1	22. 1	19. 9

Hic modus e fundamentis atqve Principiis incompa-
abilis Rimpleri deductus eſt, atqve procul dubio omnes
actenus inventos poſt ſe relinqvit, uti etiam ratione
ormæ & conſtructionis ab iisdem longe differt. Ita au-
em ſe habet conſtructio. Sumto Radio ex tab. XII. &
eſignato polygono, per medium laterum ſingulorum
x centro lineæ rectæ producuntur. Ex puncto interſe-
tionis verſus centrum iisdem lineis inſcribatur octava
ars lateris polygoni, & ex illo puncto retro & extrinſe-
us ponatur linea capitalis, e tabula XIII. e regione illius
umeri excerpenda, qvi lateris polygoni magnitudinem
a ſerie prima exprimit. Ex eodem puncto porro ducan-
ur utrinqve lineæ rectæ ad angulos polygoni, atqve in
s deſignetur magnitudo tum colli majoris tum colli mi-
oris itidem dicto loco e tabulæ XIII. ſerie ſecunda & tertia
eſumenda. Poſtea connectantur puncta colli majo-
is cum punctis capitalibus, & e collo minori eri-
antur lineæ parallelæ. Tandem è puncto
apitali utrinqve in parallelam exteriorem deorſum po-

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	1.	2.	3.	4
	' ''	' ''	' ''	' ''
f untere horizontale Wallgangs Breite	15. 0	10. 0	10. 0	
m innere Berme				4.0
n Oberbreite des Fauſſebraye Grabens				11.0
b innere Böſchung deſſelben				1. 5
p Tieffe deſſelben				6. 0
c äuſſere Böſchung				1. 5
o untere Breite				8. 0
m auſſere Berme in der Fauſſebraye.				6. 0
e untere erhöhete Wallgangs Breite		11. 0	17. 0	15. 0
d deſſen Höhe		2. 0	4. 0	5. 0
b deſſen innere Böſchung		1. 0	2. 0	3. 0
f Breite der erſten Banc	2. 5	1. 5	1. 5	1. 5
g Höhe	1. 0	1. 0	1. 0	1. 0
f Breite der andern Banc		2. 5	2. 5	2. 5
g Höhe		1. 0	1. 0	1. 0
b innere Böſchung der Bruſtwehr	9	9	9	9
c äuſſere Böſchung derſelben	1. 5	2. 5	3. 0	5. 5
h obere Dicke der Bruſt	10. 0	12. 0	15. 0	15. 0
i innere Höhe derſelben	5. 0	8. 0	10. 0	11. 0
k äuſſere Höhe.	3. 0	5. 0	6. 0	7. 0
m die Berme an dem Hauptgraben	5. 0	5. 0	5. 0	5. 0

	1.	2.	3.	4.
	' ''	' ''	' ''	' ''
n obere Breite des Grabens	90. 0	96. 0	100.0	106.0
b innere Böſchung	7. 0	8. 0	9. 0	12.0
c äuſſere Böſchung	7. 0	8. 0	9. 0	12.0
p Tieffe des Grabens	10. 0	12. 0	15. 0	18.0
q Breite des bedeckten Weges	200.	25. 0	25. 0	30.0
f Breite der erſten Banc	1. 5	1. 5	1. 5	1. 5

	1	2	3	4
g Höhe	1. 0	1. 0	1. 0	1. 0
f Breite der andern	2. 5	2. 5	4. 0	4. 0
g Höhe	1. 0	1. 0	1. 0	1. 0
r Höhe der Paliſſaden	-		5. 0	5. 0
s Breite der Bruſtwehr	700	700	80.0	80.0
i innere Höhe	6. 0	6. 0	6.0	6. 0

Tabula XV. orthographica pro operibus lapide veſtiendis.

	1	2	3	4
	l. ll	l. ll	l. ll	l. ll
a Anlage des Walles	51.9	58.0	72. 0	73.5
d Höhe deſſelben	12.0	15.0	18. 0	20.0
b innere Böſchung von Stein		2. 0		2. 0
u Höhe derſelben		10.0		12.0
t Abſatz				3. 0
b innere Böſchung des Walles von Erde	6. 0	3. 0	9. 0	5. 0

	1	2	3	4
	l. ll	l. ll	l. ll	l. ll
e Wallgang	20.0	25.0	30. 0	30.0
f Breite der erſten Banc	2.c	2.5	1. 5	1.5
g Höhe	1.2	1.2	1. 0	1.0
f Breite der andern Banc			2. 5	2.5
g Höhe			1. 0	1.0
b innere Böſchung der Bruſtwehr	9	9	1. 0	1.0
h obere Dicke derſelben	15.0	15.0	18. 0	18.0
c äuſſere Böſchung derſelben	1.5	1. 5	2. 0	2.0
i innere Höhe derſ.	5.2	5.2	6. 0	6.0
k äuſſere Höhe	3.0	3.0	4. 0	4.0
t berme auſſen vor derſelben	5.0	5.2	5. 0	5.0
c äuſſere Böſchung des Walles von Stein	2.5	3.0	3. 5	3.5
n obere Breite des Grabens	85.0	91.0	102.0	107.0

	1	2	3	4
b innere Böſchung von Stein.	2. 5	3. 0	3. 5	3. 5
c äuſſere Böſchung von Stein	2. 5	3. 0	3. 5	3. 5
p Tieffe des Grabens	12.0	15.0	15.0	15.0

	1	2	3	4
	I. II	I. II	I. II	I. II
A biß an die cuvette vom Fuß des Walles				35. 0
n oberbreite der cuvette				30. 0
b, c. innere und äuſſere Böſchung derſelben.				4. 0
p Tieffe derſelben				6. 0
B der Uberreſt der untern breite des Grabens				35. 0
o die gantze Unterbreite.	80.0	85.0	95.0	100.0
l horizontal Gang auſſen am Graben	10.0	5. 0	4. 0	4. 0
a Anlage des Walles der Contregarde		36.9	41.2	45. 3
d Höhe deſſelben		6.0	6. 0	6. 0
b innere Böſchung		3.0	3. 0	3. 0
c äuſere Böſchung		3.0	1. 5	1. 5
e Wallgang		10.0	15.0	15. 0
f Breite der erſten Banc	1. 5	1. 5	1. 5	1. 5
g Höhe	1. 0	1.0	1. 0	1. 0
f Breite der andern	2. 5	2.5	2. 5	2. 5
g Höhe	1. 0	1.0	1. 0	1. 0
b innere Böſchung der Bruſtwehr	9	9	9	9
i obere Dicke derſelben	12.0	14.0	15.0	15. 0
c äuſere Böſchung	2.0	2.0	2.0	2. 0

	1	2	3	4
	I. II	I. II	I. II	I. II
n berme, in der vierten art oben an der Bruſtwehr	4. 0	4. 0	4. 0	4. 0
obere breite des Grabens	34.0	39.0	40.0	45. 0

b.c innere und äuſſere Böſchung deſſelben von Stein	2. 0	2. 0	2. 0	2. 5
p Tieffe deſſelben	8. 0	8. 0	8. 6	8. 0
o untere Breite	30. 0	35. 0	36. 0	40. 0

Via tecta cum lorica ſua easdem menſuras eandemqve diſpoſitionem retinet, qvas tabula XIV. ſuppeditat.

Tabula orthographica pro parmulis.

	1	2	3	4
	l. ll	l. ll	l. ll	l. ll
a Anlage des Walls.	43.9	47.9	50.2	54.9
b Innere Böſchung	6.0	6.0	6. 0	6.0
c äuſſere Böſchung	4.0	5.0	2. 5	3.0
e Wallgang	15.0	15.0	18.0	20.0
d Höhe des Walles.	8.0	10.0	10.0	12.0
f Breite der 1. Banc	1.0	1.5	1. 5	1. 5
g Höhe	1.5	1.0	1. 0	1. 0
f Breite der andern	2.5	2.5	2. 5	2. 5
g Höhe	1.0	1.0	1. 0	1. 0
h obere Dicke der Bruſtwehr	12.0	12.0	15.0	15.0
b Innere Böſchung	9	9	9	9
c äuſſere Böſchung	2.0	2.0	2. 0	2. 0
m berme in der vierten Art oben an der Br.	5.0	5.0		4. 0

	1	2	3	4
	l. ll	l. ll	l. ll	l. ll
n obere Breite des Grabens	46.0	50.0	50.0	56.0
b c innere und äuſſere Böſchung	5.0	5.0	2. 5	2. 5
p Tieffe deſſelben	10.0	10.0	10.0	12.0
o untere Breite.	36.0	40.0	45.0	50.0

Uſus tabularum absqve faſtidioſa prolixitate doceri non poſſet, idqve fruſtra fieret, cum tam felici ingenio pauciſſimi inveniantur, qvi absqve manuductione delineationes orthographicas diſcant. Nemo autem aliis viam monſtrare conabitur, niſi dudum ejusmodi tabularum uſum noverit. Hoc interim moneri operæ prætium eſt

ex octo adductis diverſi generis Interſectionibus, facile per commixtionem & partium transpoſitionem plures alias fieri poſſe, prout loci conditio atqve ſumtuum apparatus ſuadebunt. Sed ubiqve diligens meditatio atqve omnium circumſtantiarum conſideratio ſollicita adhibenda eſt.

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1 Introductio ad Architectonicam Engliſch London 1666. 4.

2 Maiſons de Plaiſance. Jardins & Foreſt de France Paris 1651. 8.

3 Des principes de l' Architecture Paris 1676. 4.

4 Architectura Civilis nova Francf. 1663. und 1680. fol. teutſch.

5 Ein kunſtreich Buch von allerley Antiqvitäten zu verſtand der fünff Seulen gehörig. Zurch. fol.

6 De alderveermaerſte antiqve ædificien, ende Reglen op de uyf manieren van edificien. Amſt. fol. 1606.

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9 Jo. Henr. Alſtedii admiranda Architectonica. Herborn. 12. 1613.

10 Conſt. Amicevole Archit. civ. ridotta a methodo fa-

cile & breve. Torino. fol. 1675.

11 Androuvet Architecture, Batiments de France & antiquites de Rome. fol.

B.

12 *Jac Borrozzio de Vignola Regola generale de cinq Ordini.* Venet. 1596. fol. Arnheim. fol. 1619. Engliſch überſetzet durch Io. Leek. Lond. fol. 1666. und 1682. it. durch Jos Moxon. ib. 8. 1673. teutſch durch Joh. Wilh. Böheim. Nürnb. fol. 1617. Franzöſiſch mit einem *Commentario* durch *DaBiler 1649. Paris. 4.* Ins teutſche überſetzet von *L. C. Sturm.* und mit anmerckungen vermehret. *1699 4. Amſt.*

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17 *Fr. Blondels Cours d' Architecture en cinq tomes Paris fol. Tom. 1. 1675. les autres 1683. Tous enſemble 1699.*

18 Ejusd. figures & notes al Archit. de Savot. vid. Savot.

19 Georg. Andr. Bœcklers Civil Architectur. fol. Francf. 1663.

20 Ejusd. compendium derſelben ib. 4. 1648.

21 Ejusd. Architectura Curioſa. Nürnb. fol. 1662.

22 J. Brovvn. Deſcription and uſe of an ordinary Joynt Rule. Is addet the Scamozzi mirror of Architecture Lond. 1660. 4.

23 Blome deſcription of the five ordres according to the ancient. London. fol. 1660.

24 Nicolas de Bralion, les Curioſites de l' une & de l' Autre Rome. Paris. 1655. 8. Bullant de l' Architecture. Roan. f. 1647.

C.

25 *Petri Catanei Senenſis Architettura* Italiäniſch *fol. Venet. 1554.*

26 Architectura Civilis conſiderata in Templo Hieroſolymitano Spanniſch Caramuelis. Vigevano 1679. fol

27 Gilb. Chazerati Architectura Politica Paris. 4. 1644
28 Gabr. Cramers Architectur. Prag. fol. 1600

D.

29 *Desgodez Edifices Antiqves de Rome. Paris. fol. 1682*
30 Wend. Dieterlin Architectur. Straßburg fol. 1594
Nürnb. fol. 1598. 1655
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fol. Bamberg. 1697
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F

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1680. 4
35 *Felibien Abbregé de l' Architecture 4. Paris & Amſterdam. 1697*
36 Fontana, il Tempio Vaticano. Rom. 1694. fol
37 Ejusd. trasportatione del Obeliſco in Vaticano. 1590
fol. ib
38 Jos. Furtenbachs. Architectura Univerſalis. Ulm. f
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39 Ej. Architectura Recreationis ib. f. 1640
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44 Alex: Francini liber nonus Architectonicus. Engliſch. Lond. fol. 1669
45 *Rol. Freart Architecture parallele Paris. fol. 1676.*
46. Sex. Jul. Frontini Opera Amſt. 8. 1661.
47 Jo. und Paul Fridemanns Architectur. Arnheim fol
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48 Jo. Paul. Gallucii. de Fabrica. Venet. 4. 1592
49 Wilh. Goeree d'Allgemeene Bovvkunde. Amſt. 1681. 8
50 Nic. Golma nns Tract. de Stylometris lat. und teutſch
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51 *Ejusd.* vollſtändige Anweiſung zu der *Civil* Baukunſt durch *L. C. Sturm. Wolffenb. reg. fol. 1696*
52. Jo. Mariæ Grapaldi Lexicon. de Partibus ædium. Pa-

ris. 4. 1517. Dordr. 8. 1618 Baſil. 4. 1533

53 Sebaſt. Grubers Friedens und Kriegs-Schule. Nürnb 8. 1697

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54 Georg. Hüret Reigle preciſe pour decrire le Profil elevé du Fuſt des Colonnes. Paris. 1665

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55 *Joh. Balt. Lauterbach. Abbregé de l'Archtecture Civile. Amſt. 8. 1699*

56 Franc Lyſeri Archit. practica II. Part. teutſch. Francf. f. 1673

57 Labacco Architectura. fol.

58 Juſt. Lipſi de Amphitheatris. Veſal. 8. 1670

59 Jul. Mauclerii Novus Tr. Architectonicus. Engliſch Lond. 1669

60 Cornel. Meyer delineationi con diſcorſi delle reparationi del Tevere

61 Dan. Mayeri Architectura. Francof. fol. 1659. Nürnb f. 1654

62 *Cl. Fr. Miliet Deſchales Curſus Mathematicus fol. Lyon*

63 Mich. Mercati degli Obeliſci Romani. 1589. 4. Rom

64 *Pierre Muet, Ars ædificandi.* Frantz. *Paris. fol. 1647* Engliſch *Lond. 1668*

65 *Ejusd. Augmentations de nouveaux bâtiments Paris fol. 1647*

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66 Philibert de l' Orme Architecture Roaen fol. 1648

67 Sebaſt. Oya deſignatio accuratiſſima thermarum Diocleт. lauter Kupfer

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68 *Andr. Palladio Architectura.* Venet. fol. 1642. Italiäniſch augmentee par Muet. Amſt. 4. 1646. 1682. Fr. Engliſch Lond. 1676. Fol. Teutſch mit Georg Andr. Böclers Noten Nürnb. Fol. 1698

69 *Claude Perrault Traité des cincq Ordres Paris. Fol.* 1683

70 *Sr Perrault Parallele des Anciens & des Modernes. Amſt 8. 1693*

71 Procopii Cæſarienſis deſcriptio ædificiorum Juſtiniani Imperatoris. Paris. 8. 1537. 1538. Augſp. 1607

Mr. *Prick*. Architectoniſche Engliſche Bücher 1660. fol. vier theile. London.

Stefano Perac i veſtigi dell' Antichitá Rom. 1653. fol.

R.

6 Gualth. Rivii Architectur fol. Baſel 1582. Nürnb. 1574.

5 J. Paolo Rubens Palazzi di Genova. fol. 1652. Antv.

6 J. Ant. Ruſconi Architectura Itali; Venet. fol. 1660.

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7 Architecture antiqve de Sagredo. Paris 4. 1608.

8 P. Sardi Corona Imperiale dell' Archit. Venet. fol 1618.

9 Louis *Savot* Archit. Francoiſe. Paris. 8. 1676

0 *Vinc. Scamozzi ſpeculum Architecturæ. Ital. Venet. f. 1615.* Engliſch *Lond. 4. 1669.* Holländ. *Amſt. 1640.* Teutſch Sultzbach *fol. 1678.*

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2 Sebaſt. Serlii L. V. de *A*rchitectura. Ital. Venet. fol. 1569. item Francof. fol. regal. 1575. Paris 1545. Venet. 1667. teutſch Baſil. fol. und *A*mſt. fol. 1608. holländiſch *A*mſt. fol. 1608. Lut. et Ital. Venet. fol. 1663.

83 Ejusd. livre extraordinaire Lyon. 1551. fol.

84. Ejusd. ſette libri del' *A*rchitettura. ib. fol. 1619.

85 Joh. Chr. Seylers Parallelismus Archit. Leipzig fol. 1696.

86 Stanis. Soltzski *A*rchitectura Polonica *Cracau. 1683. 1686 1690. fol.*

87 Joh. Chriſt. Sturms Matheſis juvenilis. Tom. 1. Norib. 8. 1699

88. *Leonh. Chr. Sturm* Erſte Ausübung der Goldmanniſchen Baukunſt. *Regal. fol.* Wolffenbl. 1699

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89 *Phil. Titi Studio dell' Architettura nelle Chieſe di Roma. 1674. 12.*

90 Sr. du Val. Foyer de Compagnie & de Cabinet. Paris 1685.
91 Georg. Vaſari vitæ excellentium Architectorum Italice. Florent. 4. 1567. it. Bonon. 1647.
92 M. Vitruvii Lib. X. de Architectura ex caſtigatione
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93 *Abbregé de Vitruve par le Sr. Cl. Perrault. Amſt. 1681. 8*
94 Vitruvii vita ejusqve verborum ſignificationes per Bern. Baldum. Augſp. 4. 1612

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95 Jo. Wilhelms Architectur vor Zimmerleuthe. Francf. fol. & Nürnb.
96 Henr. Wottoni Elementa Architecturæ Amſt. 1649.

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97 Gioſeffe Viola Zanini Architettura Padua 4. 1629.
98. Frid. Zucchar[o] Idea dell Architettura Turin fol. 16[..]

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2 Tractatus Geometricus & Fortificatorius Amſt. 4.1618

3 *Nouvelle maniere de fortifier les places Paris. 12. 1689*

4 Traitte des Fortifications Mayence 12.1668

5 Pratiqve generale de Fortification, pour les tracer ſur le papier & ſur le terrain ſans avoir egard a aucune methode particuliere Moulins 1679. 8

6 Traite des Fortifications tire des places les plus eſtimeés Mayence 12.1668

7 Traite de Fortifications Paris, 1676.12

8 L' Uſage univerſel des Fortifications Franceiſes, Hollandoiſes. Italiennes & Espagnoles Paris 1680

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9 Jac. Accontii ars muniendorum oppidorum Ital. & Lat. Genev, 1585

10 Galaſſo Alghiſida Carpo della Fortificatione Libri tre Venet. 1570

11 Laur. Argeli Auszug der Fortification auffs kürtzeſte. Fr 12. 1625

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12 Theod. Baeck Architectonica militaris oppugnata & defenſa. Lucern. 8.1636. Viennæ 4.1650

13 Io Erhard de Bar le Duc Fortif. Amſt. fol. Fr. fol. 1617

14 Joſeppe Barca Compendio di Fortificatione. Bologna 1642. 4

15 Joh. Henr. Beer Verſchantzer Tourenne Francf. & Leipz 1690

16 Jo. Bapt. Belici nova inventio fabricandi Fortificationes Venet. 1598

17 *Blondel nouvelle maniere de Fortifier. la Haye 1686.* Paris 1634. 4. Amſt. 1684. 12 teutſch Sultzbach. 1685. 8

18 G. Andr. Boeccleri Architectura nova militaris. Nor. 8. 1661

19 *Ernſt. Frid. Borgsdorff* unüberwindliche Feſtung. Ulm 8. 1682

20 Ejusd. befeſtigte Stücke eines Fürſtenthums. Norib. 168
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21 Pierre Bourdin Architecture milit. Paris 8. 1655
22 Jo. Brueil. S. I. Ars fortif. Paris 4. 1665
23 Gabr. Busca Milaneſe Fortificatione Milan. 1601. 4
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24 Jac. Caſtrietto della Fortificatione delle Città. libri trè
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25 Andr. Cellarii Arch. milit. Amſt. 1656. fol
26 Coehorn verſterkinge des Vijfhoeks Leeuwarden. 1682. 8
27 Ejusd. Wederleginge van Capit. Paen. ibid. 1683. 8
28 *Eiusd Nieuwe Veſtingbouw. fol. 1685. ibid*

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29 *Wilh. Dilichii Peribologia. Francof. fol. 1641*
30 Ejusd Krieges Schuhle. fol. Francf. 1689
31 Matth. a Dögen Archit. milit. modernæ Theoria & pra
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12. Frantz. Amſt. fol. 1658
32 Alb. Durer de ſtruendis urbibus &c. Paris. fol. 1535

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33 Richard Elton. Compleat Body of the Art military Lon
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34 Joh. Faulhabers Inventiones zu Grundriſſen der Fe
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35 Mr. de la Fontaine Fortification Royale Paris. 8. 1666
36 George Fournier Archit. milit. mayence 12. 1670. Amſt
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37 Claude Flamand Inſtruction pour la Fortification. Baſ
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38 R. P. Floriani Fortificatione. Venet. 1654. fol
39. Claude Flamand Gvide des Fortifications. Montpeli
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40 Ad Freytags Fortification. Amſt. fol. 1664. lat. Am
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41 Jos. *Furtenbachs Architectura martialis.* Ulm fol. 1630.

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42. Math. Geigeri artificium muniendi geometricum Holm. 4. 1650.

43. Nic. Goldmanni Elementa *Architecturæ* militaris. Lugd. Bat. 8. 1643. fol. 1668.

44. Gotier de Nismes traite des *Fortifications* Lugd. 1685. 12.

45 *Fr. Gründlers Fortificatoria noßa* 2. theile *fol. Norib.* 1683

46 *Alex.* von Grotte neue manier mit wenig Koſten Feſtungen zubauen.

47 Sebaſt. Gruber Friedens und Krieges Schule. Nürnb. 8. 1697.

48 Ejusd. neue befeſtigungs-Kunſt/ Nürnb. 8. 1700

49. Georg a Gutſchoven Regulæ munitionum.

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0. *Chr. Heer Theoria & praxis art. mun.* Teutſch. 4. *Francf.* 1689.

1 Ejusd. Speculum Fortificatorium 4. 1694. Leipz.

2 *Chriſt. Heidemanni Archit. milit. fol.* 1664.

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3. *Lampe* Freyherr vom *Rondell* die in Feld und See *bataille victoriſirende* Feſtung *Wien.* 1692. 12.

4 Jacobi. Lanterii Libb. II. de modo ſubſtituendi terrena monumenta &c. Venet. 1563.

5 de la Londe Elemens de Fortification. Paris 1685. 4.

6 Theodoric Lüders Fortification Paris 1680.

7 Bonajuti Lorini V. Bücher von Feſtung bauen *Francf* fol. 1607

8 Ejusd. VI. Buch durch de Bry. Lips. fol. 1616.

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9 *Al.* Chr. le Maitre Altes und neues Troja. 8. 1684.

0 Gerh. Mayeri Matheſis militaris. Erff. fol 1643.

1 *Maneſſon Mallet* arbeit van Mars Teutſch und Holland. *Amſt.* 1672. 1682. 8. Frantz. *ib.* 1685. 8.

2 *Franc. de Marchi Fortificatione. Breſcia fol.* 1599

3 *Seb. Ferd. Medrano Ingenitur pratique Bruſſel.* 8. 1696

64. Honor de Meynier *Fortification* Bau Francof. 4. 1642.

65 *Cl. Fr. Millet* Krieges-Bau-Kunſt teutſch überſetzet *12 1677. Leipz.* Frantz. *Paris Francof. 1672. 12.*

66 Jon. Moor Fortificatio moderna Engliſch. Lond 1673. fol.

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67 Mr. Ozanam Traite de Fortification Paris 1694. 8.

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58 *Fortification du Conte de Pagan. Bruſſel. 12: 1668* Teutſch. *Francof. 8. 1684.*

69 Mich. Potiers Theorie & prattiqve des *Fortreſſes.* Colon. fol. 1601.

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70 Jo. Pharam. Rhumellii Compendium *Fortificatorium* 12. 1644

71 Henr. Ridemann Inſtitutiones Arch. milit Roſtoch 4. 1674

72 *George Rimplers* befeſtigte Feſtung. *Francf. 4. 1671. 12 1674*

73 *Henr. Ruſens* und *Gerh. Melders Archit. milit.* Teutſch *Francf. fol. 1670.*

74. George Rimplers furieuſer Sturm Joh. Bernh. Scheithers gantzlich abgeſchlagen. *Francf.* 12. 1675.

75 Donato Roſetti Fortificatione a roveſchio. Turin 1677. fol.

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76 Petri Sardi Corona imperiale fortificatoria. Francf fol. 1622.

77 Joh. Henr. Sattler von Veſtungen. Baſel. 4. 1610.

78 *Joh. Bernh. Scheithers Praxis militaris Brauns. 1672. fo* *Ejusd. Examen Fortificatorium fol.* Straßburg. *1677*

79 Jean van Schille Archit. milit. Antverp. 1580

80 Wendelin Schildknecht von Feſtung Bauen Steti fol. 1652

81. *Dan. Suttingers* Entſatz der *Rimpleriſchen* Befeſtigun *contra* Wehrtmüllern. *Dresd. fol.*

82 *Daniel Speckle Architectur* von Feſtungen *f. 1599. 8.*
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83 George Stahl. Europæiſcher Ingenieur. Nürnb. 1687. 8.

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84 *Joh. Teyler Archit. militaris. 4*
85 Carlo Theti Fortificatione. Vicenza. fol. 1618

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86. Jac. Willems Verrotens Kriegs-Mathematica Hamb
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87 Vauban. Directeur general des Fortifications. a la
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88 Ejusd. nouvelle maniere de fortifier par le chev. de
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par du Fay & de Chambray Amſt. 8. 1699
89 Dieg. Henr. de Villegas *A*cademia da Fortification
de placas 1651 Madrid
90 *Antoine de Ville Fortification* Paris fol. 1666 *Amſt.* 8
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91. Jo. Jac. Wehrtmüller *A*pologia Fortificatoria fol
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92 Ejusd. Probierſtein der Ingenieur. Francf. 8. 1685
93 Ejusd. Commendanten-Spiegel. 1685. Francf. 8

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94 *A*lonſo de Zapedo i. *A*ndrada, Fortification moderna
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95 Jos. Zaragozza *A*rchit. milit. Valent. 1674. 4.

F I N I S.

Tabula Libellatica.

Diſt.	Exaltatio libellæ Erhöhung der Wage			Diſt.	Exaltatio. Erhöhung.		
Ruth.	ſch.	Zoll.	Scr.	Ruth.	Sch.	Z.	Scr.
25	0	0	0 $\frac{1}{3}$	375	0	6	3
50	0	0	1 $\frac{1}{3}$	400	0	7	1
75	0	0	3	425	0	7	11 1/[illegible]
100	0	0	5 $\frac{1}{3}$	450	0	8	11
125	0	0	8 $\frac{1}{3}$	475	0	10	0
150	0	1	0	500	0	11	0
175	0	1	4 $\frac{1}{3}$	625	1	5	2 $\frac{1}{2}$
200	0	1	9 $\frac{1}{3}$	750	2	0	9
225	0	2	3	875	2	9	8 $\frac{1}{2}$
250	0	2	9	1000	3	8	0
275	0	3	6	1250	5	8	9
300	0	4	0	1500	8	3	0
325	0	4	8	1750	11	2	9
350	0	5	4	2000	14	8	6

Uſus hujus tabulæ.

Ne, plagium, turpe Eruditorum vitium, committa monendus ante omnia Lector benevolus eſt, tabula hanc ex De la Hire libello gallico, du nivellement d Eaux, ſeqventem ex Ozanami curſu Mathematico galli ſcripto, reliqvas ex Goldmanni tractatu de Circino pr portionatorio huc translatas eſſe. Hujus tabulæ utilitas eo conſiſtit. Qvæſita ope inſtrumenti cujusdam libel tici, qvod accuratum eſſe præſupponitur, linea horizc tali magnæ longitudinis, duo obſervanda ſunt, an qvam pro verè horizontali habeatur. Primum ab

fractio radiorum viſualium in aëre lineam illam forte e-levarit aut depreſſerit, qvod non niſi conjectando a menſore exercitato deprehendi poteſt. Deinde qvantum ab altitudine alterius termini ob terræ rotunditatem ſubtrahi debeat, ut punctum ejus cum inſtrumento libellatico in linea vere horizontali exiſtat. Hoc vero ope tabulæ præſentis fieri poteſt, ſi numerus iſte pedum & pollicum ſubtrahatur, qvi ſub rubrica *Exaltatio libellæ* e regione numeri diſtantiæ termini extremi ab inſtrumento, in ſerie ſiniſtima inveniendi collocatur.

Tabula Angulorum abſqve inſtrumento goniometrico menſurandorum.

Sæpius accidit Architectis & Ingeniariis, ut ſis inſtrumentis goniometricis deſtitutis, tamen angulum definitæ magnitudinis in campo delineare jubeantur. Ii ducta linea pro uno anguli crure 30. pedes longa, ſi in uno ejus extremo chordam vel funiculum 30. pedes longum alligent, in altero vero funiculum tot pedes atqve pollices longum, ac ſeries prima vel tertia vel qvinta, e regione anguli dati, in ſerie ſecunda qvarta vel ſexta inveniendi, oſtendit, mediantibus funiculis illis arcus ſe mutuo interſecantes delineare poterunt, qvi punctum conſtituant, per qvod alterum qvæſiti anguli crus ducendum eſt.

Linie		Winkel		L.		W.		L.		W.	
′	″	gr.	m.	′	″	g.	m.	′	″	g.	m.
0	2	0	19	1	6	2	52	2	10	5	25
0	4	0	38	1	8	3	11	3	0	5	44
0	6	0	57	1	10	3	30	3	2	6	3
0	8	1	8	2	0	3	49	3	4	6	22
0	10	1	36	2	2	4	8	3	6	6	41
1	0	1	55	2	4	4	28	3	8	7	0
1	2	2	14	2	6	4	47	3	10	7	20
1	4	2	33	2	8	5	6	4	0	7	39

Lin		Win.		L		W		L		W	
′	″	g.	m.	′	″	g.	m.	′	″	g	m
5	0	9	34	10	2	19	30	15	4	29	37
5	2	9	53	10	4	19	50	15	6	29	56
5	4	10	12	10	6	20	19	15	8	30	16
5	6	10	31	10	8	20	29	15	10	30	36
5	8	10	50	10	10	20	48	16	0	30	56
5	10	11	9	11	0	21	8	16	2	31	16
6	0	11	29	11	2	21	27	16	4	31	36
6	2	11	48	11	4	21	46	16	6	31	56
6	4	12	8	11	6	22	6	16	8	32	16
6	6	12	27	11	8	22	25	16	10	32	35
6	8	12	46	11	10	22	45	17	0	32	55
6	10	13	5	12	0	23	5	17	2	33	15
7	0	13	24	12	2	23	24	17	4	33	35
7	2	13	43	12	4	23	44	17	6	33	55
7	4	14	2	12	6	24	3	17	8	34	15
7	6	14	22	12	8	24	32	17	10	34	35
7	8	14	41	12	10	24	52	18	0	34	55
7	10	15	0	13	0	25	1	18	2	35	15
8	0	15	20	13	2	25	21	18	4	35	35
8	2	15	39	13	4	25	41	18	6	35	55
8	4	15	58	13	6	26	1	18	8	36	15
8	6	16	18	13	8	26	20	18	10	36	35
8	8	16	37	13	10	26	40	19	0	36	55
8	10	16	56	14	0	26	59	19	2	37	15
9	0	17	15	14	2	27	18	19	4	37	36
9	2	17	34	14	4	27	38	19	6	37	56
9	4	17	54	14	6	27	58	19	8	38	16
9	6	18	13	14	8	28	18	19	10	38	36
9	8	18	32	14	10	28	38	20	0	38	56
9	10	18	52	15	0	28	57	20	2	39	17
10	0	19	11	15	2	29	17	20	4	39	38

L.		W.		L.		W.		L.		W.	
'	''	g.	m	'	''	g	m	'	''	g	m
20	6	39	58	26	4	52	3	32	2	64	50
20	8	40	18	26	6	52	24	32	4	65	13
20	10	40	38	26	8	52	46	32	6	65	36
21	0	40	59	26	10	53	8	32	8	65	58
21	2	41	19	27	0	53	29	32	10	66	21
21	4	41	40	27	2	53	51	33	0	66	44
21	6	42	0	27	4	54	12	33	2	67	7
21	8	42	20	27	6	54	34	33	4	67	30
21	10	42	40	27	8	54	55	33	6	67	53
22	0	43	1	27	10	55	16	33	8	68	16
22	2	43	22	28	0	55	38	33	10	68	39
22	4	43	42	28	2	56	0	34	0	69	2
22	6	44	3	28	4	56	22	34	2	69	25
22	8	44	24	28	6	56	43	34	4	69	48
22	10	44	44	28	8	57	5	34	6	70	12
23	0	45	5	28	10	57	26	34	8	70	35
23	2	45	26	29	0	57	48	34	10	70	59
23	4	45	46	29	2	58	10	35	0	71	22
23	6	46	7	29	4	58	32	35	2	71	46
23	8	46	28	29	6	58	54	35	4	72	10
23	10	46	48	29	8	59	16	35	6	72	33
24	0	47	9	29	10	59	38	35	8	72	56
24	2	47	30	30	0	66	0	35	10	73	20
24	4	47	51	30	2	60	22	36	0	73	44
24	6	48	12	30	4	60	44	36	2	74	8
24	8	48	33	30	6	61	6	36	4	74	32
24	10	48	54	30	8	61	28	36	6	73	56
25	0	49	15	30	10	61	50	36	8	75	20
25	2	49	36	31	0	62	13	36	10	75	44
25	4	49	57	31	2	62	34	37	0	76	9
25	6	50	18	31	4	62	58	37	2	76	33
25	8	50	39	31	6	63	20	37	4	76	57
25	10	51	0	31	8	63	43	37	8	77	22
26	0	51	21	31	10	64	5	37	10	77	46
26	2	51	42	32	0	64	28	38	0	78	9

L.		W.		L.		W.		L.		W.	
′	″	g.	m.	′	″	g.	m.	′	″	g.	m
38	2	79	0	43	4	92	29	48	6	107	52
38	4	79	25	43	6	92	56	48	8	108	25
38	6	79	50	43	8	93	24	48	10	108	57
38	8	80	14	43	10	93	52	49	0	109	30
38	10	80	40	44	0	94	20	49	2	110	4
39	0	81	5	44	2	94	48	49	4	110	37
39	2	81	30	44	4	95	16	49	6	111	11
39	4	81	55	44	6	95	45	49	8	111	44
39	6	82	20	44	8	96	13	49	10	112	18
39	8	82	46	44	10	96	42	50	0	112	53
39	10	83	12	45	0	97	11	50	2	113	28
40	0	83	37	45	2	97	40	50	4	114	4
40	2	84	3	45	4	98	9	50	6	114	38
40	4	84	29	45	6	98	38	50	8	115	14
40	6	84	54	45	8	99	8	50	10	115	49
40	8	85	20	45	10	99	37	51	0	116	26
40	10	85	46	46	0	100	6	51	2	117	2
41	0	86	13	46	2	100	36	51	4	117	39
41	2	86	39	46	4	101	6	51	6	118	16
41	4	87	5	46	6	101	36	51	8	118	53
41	6	87	32	46	8	102	7	51	10	119	31
41	8	87	58	46	10	102	37	52	0	120	9
41	10	88	25	47	0	103	8	52	2	120	47
42	0	88	51	47	2	103	39	52	4	121	26
42	2	89	18	47	4	104	10	52	6	122	6
42	4	89	45	47	6	104	41	52	8	122	45
42	6	90	12	47	8	105	12	52	10	123	25
42	8	90	39	47	10	105	44	53	0	124	6
42	10	91	6	48	0	106	16	53	2	124	47
43	0	91	33	48	2	106	48	53	4	125	28
43	2	92	1	48	4	107	20	53	6	126	10
								F	I	N	IS

Tabulæ pro conſtructione Circini proportionatorii.

Cum libri non omnibus ad manus ſint, qvibus hæ tabulæ continentur, operæ pretium duxi, easdem inde excerpere atqve omnium uſui hic exponere. Pro uſu autem harum tabularum in genere ſciendum eſt, lineas omnes in circino proportionatorio æqvales fieri, atqve ſingulas mediante ſcala geometrica in 1000. partes æqvales dividi debere. Qvo facto e tabula numeri usqve ad punctum excerpuntur, ope circini e ſcala illa geometrica depromuntur, atqve ita e Centro circini proportionatorii in lineas a medio æqve diſtantes transferuntur. Tabulæ adhibita hinc inde correctione aliqva e Goldmanni tractatu Lugd. Bat. Ao. 1656. edito compilatæ ſunt, unde easdem Mich. Scheffelt in opus ſuum de Inſtrumento Proportionatorio Ulmæ 1697. excuſum tranſtulit. Linea Arithmetica peculiari tabula opus non habet, cum omnes partes ejus inter ſe & ſingulæ partibus ſcalæ geometricæ decem æqvales ſint.

Tabelle zu der linea Geometrica

1	100.0	16	400.0	31	556.8	46	678.2
2	141.4	17	412.3	32	565.7	47	685.6
3	173.2	18	424.2	33	574.5	48	692.8
4	200.0	19	435.9	34	583.1	49	700.0
5	223.6	20	447.2	35	591.6	50	707.1
6	244.9	21	458.3	36	600.0	51	714.1
7	264.6	22	469.6	37	608.3	52	721.1
8	282.8	23	479.6	38	616.4	53	728.0
9	300.0	24	489.9	39	624.5	54	734.8
10	316.2	25	500.0	40	632.5	55	741.6
11	331.7	26	509.9	41	640.3	56	748.3
12	346.4	27	519.6	42	648.0	57	755.0
13	360.6	28	528.2	43	655.7	58	761.6
14	374.2	29	538.5	44	663.3	59	768.1
15	387.3	30	547.7	45	670.8	60	774.6

Punct.	Radix	P.	Rad.	P.	Rad	P	Rad.
61	781.0	71	842.6	81	900.0	91	953.9
62	787.4	72	848.5	82	905.5	92	959.2
63	793.7	73	854.4	83	911.0	93	964.4
64	800.0	74	860.2	84	916.5	94	969.5
65	806.2	75	866.0	85	922.0	95	974.7
66	812.4	76	871.8	86	927.4	96	979.9
67	818.5	77	877.5	87	932.7	97	984.9
68	824.6	78	883.2	88	938.1	98	990.0
69	830.7	79	888.8	89	943.4	99	995.0
70	836.7	80	894.4	90	948.7	100	1000.0

Die Tabelle zu der Linea Tetragonica

Der Punct zum 3 Eck iſt gleich 1000. theiligen des Maßſtabes oder nach der Tabelle 1000.0.

Figura	Latus	Fig	Lat	Fig.	Lat
4	658.0	9	264.7	15	156.7
5	501.7	10	237.2	16	146.7
6	408.2	11	215.0	17	138.0
⊙Rad	371.3	12	196.7	18	130.3
7	345.2	13	181.2	19	123.3
8	299.5	14	168.0	20	117.1

Tabelle zu der linea ſubtenſarum.

Fig	Subt	Fig	Subt	Fig	Subt
3	502.8	10	956.3	17	988.4
4	711.0	11	964.8		
5	813.5	12	971.2	18	990.2
6	870.8	13	976.3	19	991.8
7	905.9	14	980.3	20	993.1
8	929.0	15	983.5	25	997.6
9	944.9	16	986.2	30	1000.0

Tabelle zu der Linea Circuli dividendi.

3	1000.0	12	298.9	22	164.3
4	816.6	13	276.4	23	157.2
5	678.8	14	257.0	24	150.7
6	577.4	15	240.1	25	144.7
7	501.0	16	225.3	26	139.2
8	441.9	17	212.2	27	134.1
9	395.0	18	200.5	28	129.3
10	356.9	19	190.1	29	124.9
11	325.3	20	180.7	30	120.7
		21	172.0		

Tabelle zu der Linea Chordarum.

Gr.	Chord.	Gr.	Chord.	Gr.	Chord.	Gr.	Chord.
1	8.7	21	182.2	41	350.2	61	507.5
2	17.5	22	190.8	42	358.4	62	515.0
3	26.2	23	199.4	43	366.5	63	522.5
4	34.9	24	207.9	44	374.6	64	529.9
5	43.6	25	216.4	45	382.7	65	537.3
6	52.3	26	225.0	46	390.7	66	544.6
7	61.0	27	233.4	47	398.7	67	551.9
8	69.8	28	241.9	48	406.7	68	559.2
9	78.5	29	250.4	49	414.7	69	566.4
10	87.2	30	258.8	50	422.6	70	573.6
11	95.8	31	267.2	51	430.5	71	580.7
12	104.5	32	275.6	52	438.4	72	587.8
13	113.2	33	284.0	53	446.2	73	594.8
14	121.9	34	292.4	54	454.0	74	601.8
15	130.5	35	300.7	55	461.7	75	608.8
16	139.2	36	309.0	56	469.5	76	615.7
17	147.8	37	317.3	57	477.2	77	622.5
18	156.4	38	325.6	58	484.8	78	629.3
19	165.0	39	333.8	59	492.4	79	636.1
20	173.6	40	342.0	60	500.0	80	642.8

Grad	Chordæ	Gr.	Chordæ	Gr.	Chordæ	Gr.	Chor.
81	649.4	103	782.6	124	882.9	145	953.7
82	656.1	104	788.0	125	887.0	146	956.3
83	662.6	105	793.4	126	891.0	147	958.8
84	669.1	106	798.6	127	894.9	148	961.3
85	675.6	107	803.9	128	898.8	149	963.6
86	682.0	108	809.0	129	902.6	150	965.9
87	688.4	109	814.1	130	906.3	151	968.1
88	694.7	110	819.2	131	910.0	152	970.3
89	700.9	111	824.1	132	913.5	153	972.4
90	707.1	112	829.0	133	917.1	154	974.4
91	713.3	113	833.9	134	920.5	155	976.3
92	719.3	114	838.7	135	923.9	156	978.1
93	725.4	115	843.4	136	927.2	157	980.0
94	731.4	116	848.0	137	930.4	158	981.6
95	737.3	117	852.6	138	933.6	159	983.3
96	743.1	118	857.2	139	936.7	160	984.8
97	749.0	119	861.6	140	939.7	165	991.4
98	754.7	120	866.0	141	942.6	170	996.2
99	760.4	121	870.4	142	945.5	175	999.0
100	766.0	122	874.6	143	948.3	180	1000.0
101	771.6	123	878.8	144	951.1		
102	777.1						

Tabelle zu der Linea Cubica.

Punct	Radix	P.	Rad.	P.	Rad.	P.	Rad.
1	215.4	11	479.1	21	594.4	31	676.8
2	271.4	12	493.2	22	603.7	32	684.0
3	310.7	13	506.6	23	612.7	33	691.0
4	342.0	14	519.2	24	621.7	34	698.0
5	368.4	15	531.3	25	630.0	35	704.7
6	391.5	16	542.9	26	638.3	36	711.4
7	412.1	17	554.0	27	646.3	37	717.9
8	430.9	18	564.6	28	654.2	38	724.3
9	448.1	19	574.9	29	661.9	39	730.6
10	464.2	20	584.8	30	669.4	40	736.8